



Open Source Used In Intelligent Node Software 2.0.9

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Text Part Number: 78EE117C99-1149059802

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.6 dbus-glib 0.104

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1.7 glib 2.44.1

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| End | |
|--|---|
| /**** | **************** |
| * P | erl-Compatible Regular Expressions * |
| ***** | ************************************* |
| | |
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| applications that call the PCRE functions. | |
| | |
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```
_____
#ifndef _PCRE_H
#define PCRE H
The current PCRE version information. */
#define PCRE MAJOR
                        8
#define PCRE MINOR
#define PCRE_PRERELEASE
#define PCRE_DATE
                       2012-07-06
/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */
#if defined(_WIN32) && !defined(PCRE_STATIC)
# ifndef PCRE_EXP_DECL
# define PCRE_EXP_DECL extern __declspec(dllimport)
# endif
# ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
   define PCRECPP_EXP_DECL extern __declspec(dllimport)
# endif
# ifndef PCRECPP_EXP_DEFN
   define PCRECPP_EXP_DEFN __declspec(dllimport)
```

```
endif
# endif
#endif
/* By default, we use the standard "extern" declarations. */
#ifndef PCRE EXP DECL
# ifdef __cplusplus
# define PCRE_EXP_DECL extern "C"
# else
  define PCRE_EXP_DECL extern
# endif
#endif
#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
# define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
# define PCRECPP EXP DEFN
# endif
#endif
/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */
#include <stdlib.h>
/* Allow for C++ users */
#ifdef __cplusplus
extern "C" {
#endif
/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and
therefore JIT
compiling). */
#define PCRE_CASELESS
                                0x00000001 /* Compile */
                                 0x00000002 /* Compile */
#define PCRE_MULTILINE
```

```
#define PCRE_DOTALL
                           0x00000004 /* Compile */
#define PCRE EXTENDED
                             0x00000008 /* Compile */
#define PCRE_ANCHORED
                             0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY
                                  0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE EXTRA
                          0x00000040 /* Compile */
#define PCRE_NOTBOL
                           0x00000080 /* Exec, DFA exec */
#define PCRE NOTEOL
                           0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY
                             0x00000200 /* Compile */
#define PCRE_NOTEMPTY
                             0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE UTF8
                         0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16
                         0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE NO AUTO CAPTURE 0x00001000 /* Compile */
The next two are also used in exec and DFA exec */
#define PCRE NO UTF8 CHECK
                                0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK
                                0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE AUTO CALLOUT
                                0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT
                               0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL
                           0x00008000 /* Backwards compatible synonym */
#define PCRE DFA SHORTEST
                               0x00010000 /* DFA exec */
                               0x00020000 /* DFA exec */
#define PCRE_DFA_RESTART
#define PCRE_FIRSTLINE
                            0x00040000 /* Compile, used in exec, DFA exec */
                             0x00080000 /* Compile */
#define PCRE DUPNAMES
#define PCRE_NEWLINE_CR
                              0x00100000 /* Compile, exec, DFA exec */
#define PCRE NEWLINE LF
                              0x00200000 /* Compile, exec, DFA exec */
#define PCRE NEWLINE CRLF
                               0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY
                               0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF
  0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF
                               0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE
                              0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE NO START OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD
                               0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP
                        0x20000000 /* Compile, used in exec, DFA exec */
/* Exec-time and get/set-time error codes */
#define PCRE_ERROR_NOMATCH
                                   (-1)
#define PCRE_ERROR_NULL
                                (-2)
#define PCRE_ERROR_BADOPTION
                                    (-3)
#define PCRE_ERROR_BADMAGIC
                                    (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE
                                        (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY
                                     (-6)
```

```
#define PCRE_ERROR_NOSUBSTRING
  (-7)
#define PCRE_ERROR_MATCHLIMIT
                                   (-8)
#define PCRE_ERROR_CALLOUT
                                 (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8
                                 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16
                                 (-10) /* Same for 8/16 */
#define PCRE ERROR BADUTF8 OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL
#define PCRE ERROR BADPARTIAL
                                   (-13)
#define PCRE_ERROR_INTERNAL
                                 (-14)
#define PCRE_ERROR_BADCOUNT
                                  (-15)
#define PCRE_ERROR_DFA_UITEM
                                  (-16)
#define PCRE_ERROR_DFA_UCOND
                                   (-17)
#define PCRE_ERROR_DFA_UMLIMIT
                                   (-18)
#define PCRE_ERROR_DFA_WSSIZE
                                  (-19)
#define PCRE_ERROR_DFA_RECURSE
                                   (-20)
#define PCRE ERROR RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT
                                   (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE
                                   (-23)
#define PCRE ERROR BADOFFSET
                                  (-24)
#define PCRE_ERROR_SHORTUTF8
                                  (-25)
#define
PCRE ERROR SHORTUTF16
                            (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE ERROR JIT STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)
/* Specific error codes for UTF-8 validity checks */
#define PCRE UTF8 ERR0
                              0
#define PCRE_UTF8_ERR1
                              1
                              2
#define PCRE_UTF8_ERR2
#define PCRE_UTF8_ERR3
                              3
#define PCRE_UTF8_ERR4
                              4
                              5
#define PCRE_UTF8_ERR5
#define PCRE_UTF8_ERR6
                              6
                              7
#define PCRE_UTF8_ERR7
#define PCRE_UTF8_ERR8
                              8
                              9
#define PCRE_UTF8_ERR9
#define PCRE_UTF8_ERR10
                              10
#define PCRE_UTF8_ERR11
                              11
#define PCRE_UTF8_ERR12
                              12
#define PCRE_UTF8_ERR13
                              13
#define PCRE_UTF8_ERR14
                              14
#define PCRE_UTF8_ERR15
                              15
```

```
#define PCRE_UTF8_ERR16
                              16
#define PCRE_UTF8_ERR17
      17
#define PCRE_UTF8_ERR18
                              18
#define PCRE_UTF8_ERR19
                              19
#define PCRE_UTF8_ERR20
                              20
#define PCRE UTF8 ERR21
                              21
/* Specific error codes for UTF-16 validity checks */
#define PCRE_UTF16_ERR0
                               0
#define PCRE_UTF16_ERR1
                               1
#define PCRE_UTF16_ERR2
                               2
#define PCRE_UTF16_ERR3
                               3
#define PCRE_UTF16_ERR4
                               4
/* Request types for pcre_fullinfo() */
#define PCRE_INFO_OPTIONS
                                0
#define PCRE_INFO_SIZE
#define PCRE INFO CAPTURECOUNT
#define PCRE_INFO_BACKREFMAX
                                    3
#define PCRE_INFO_FIRSTBYTE
#define PCRE_INFO_FIRSTCHAR
                                  4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE
                                  5
#define PCRE_INFO_LASTLITERAL
#define PCRE_INFO_NAMEENTRYSIZE
#define PCRE_INFO_NAMECOUNT
                                   8
#define PCRE_INFO_NAMETABLE
                                   9
#define PCRE_INFO_STUDYSIZE
#define PCRE_INFO_DEFAULT_TABLES
  11
#define PCRE_INFO_OKPARTIAL
                                  12
#define PCRE_INFO_JCHANGED
                                 13
#define PCRE_INFO_HASCRORLF
                                  14
#define PCRE_INFO_MINLENGTH
                                  15
#define PCRE_INFO_JIT
                            16
#define PCRE_INFO_JITSIZE
                              17
#define PCRE_INFO_MAXLOOKBEHIND
/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */
#define PCRE_CONFIG_UTF8
                                   0
#define PCRE_CONFIG_NEWLINE
                                      1
#define PCRE_CONFIG_LINK_SIZE
                                      2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT
```

```
#define PCRE_CONFIG_STACKRECURSE
#define PCRE_CONFIG_UNICODE_PROPERTIES
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR
                                      8
#define PCRE_CONFIG_JIT
                                       10
#define PCRE_CONFIG_UTF16
#define PCRE CONFIG JITTARGET
                                          11
/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible.
*/
#define PCRE STUDY JIT COMPILE
                                            0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004
/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */
#define PCRE_EXTRA_STUDY_DATA
                                           0x0001
#define PCRE EXTRA MATCH LIMIT
                                            0x0002
#define PCRE_EXTRA_CALLOUT_DATA
                                             0x0004
#define PCRE_EXTRA_TABLES
                                       0x0008
#define PCRE EXTRA MATCH LIMIT RECURSION 0x0010
#define PCRE_EXTRA_MARK
                                       0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT
                                             0x0040
/* Types */
struct real_pcre;
                       /* declaration; the definition is private */
typedef struct real_pcre pcre;
struct real_pcre16;
                        /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;
struct real_pcre_jit_stack;
                          /* declaration; the definition is private */
typedef
struct real_pcre_jit_stack pcre_jit_stack;
struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;
/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif
```

```
#ifndef PCRE SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif
/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */
#ifndef PCRE SPTR
#define PCRE SPTR const char *
#endif
/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */
typedef struct pcre extra {
                             /* Bits for which fields are set */
 unsigned long int flags;
void *study_data;
                           /* Opaque data from pcre_study() */
unsigned long int match limit; /* Maximum number of calls to match() */
void *callout_data;
                           /* Data passed back in callouts */
const unsigned char *tables; /* Pointer to character tables */
unsigned long int match limit recursion; /* Max recursive calls to match() */
unsigned char **mark;
                             /* For passing back a mark pointer */
void *executable jit;
                            /* Contains a pointer to a compiled jit code */
} pcre extra;
/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_extra {
unsigned long int flags;
                            /* Bits for which fields are set */
void *study data;
                           /* Opaque data from pcre_study() */
unsigned long int match limit; /* Maximum number of calls to match() */
void *callout_data;
                           /* Data passed back in callouts */
const unsigned char
*tables: /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark;
                                   /* For passing back a mark pointer */
void *executable_jit;
                           /* Contains a pointer to a compiled jit code */
} pcre16_extra;
/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */
typedef struct pcre_callout_block {
```

```
int
                     /* Identifies version of block */
/* ------*/
        callout_number; /* Number compiled into pattern */
        *offset_vector; /* The offset vector */
int
PCRE SPTR subject;
                           /* The subject being matched */
        subject_length; /* The length of the subject */
int
                   /* Offset to start of this match attempt */
    start match;
int
        current_position; /* Where we currently are in the subject */
                       /* Max current capture */
int
        capture top;
                       /* Most recently closed capture */
int
        capture_last;
                        /* Data passed in with the call */
void
         *callout_data;
/* ----- Added for Version 1 ----- */
        pattern_position; /* Offset to next item in the pattern */
int
        next_item_length; /* Length of next item in the pattern */
int
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* -----*/
} pcre_callout_block;
/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_callout_block {
                     /* Identifies version of block */
        version;
Version 0 -----*/
        callout number; /* Number compiled into pattern */
        *offset_vector; /* The offset vector */
int
                             /* The subject being matched */
PCRE SPTR16 subject;
int
        subject_length; /* The length of the subject */
                      /* Offset to start of this match attempt */
int
        start_match;
int
        current_position; /* Where we currently are in the subject */
int
        capture top;
                       /* Max current capture */
                     /* Most recently closed capture */
int
        capture_last;
void
         *callout_data; /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
        pattern_position; /* Offset to next item in the pattern */
int
int
        next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark;
   /* Pointer to current mark or NULL */
} pcre16_callout_block;
/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
```

```
#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE EXP DECL void (*pcre stack free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);
PCRE EXP DECL void *(*pcre16 malloc)(size t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE EXP DECL void (*pcre16 stack free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else
 /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE EXP DECL void pcre free(void *);
PCRE EXP DECL void *pcre stack malloc(size t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE EXP DECL int pcre callout(pcre callout block *);
PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE EXP DECL void pcre16 free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE EXP DECL void pcre16 stack free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */
/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);
/* Exported PCRE functions */
PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
         const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
         const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const
char *, int, int *, const char **,
         int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
         int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
```

have to take another form. */

```
int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
         int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
         char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
         PCRE UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
         const char *, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const
pcre16_extra *,
         PCRE_SPTR16, int, int, int *, int *, int *, int *, int);
PCRE EXP DECL int pcre exec(const pcre *, const pcre extra *, PCRE SPTR,
          int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
          PCRE SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE EXP DECL void pcre16 free substring(PCRE SPTR16);
PCRE EXP DECL void pcre free substring list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
         void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
         void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
         int *, int, const char *, const char **);
PCRE EXP DECL int pcre16 get named substring(const pcre16 *, PCRE SPTR16,
         int
*, int, PCRE SPTR16, PCRE SPTR16 *);
PCRE EXP DECL int pcre get stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
         char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
         PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
         const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
         PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
         const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
         PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *,
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
```

```
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);
/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
          const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
          const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16*,
          PCRE_SPTR16, int, int *, int);
/* JIT compiler related functions. */
PCRE EXP DECL pere jit stack *pere jit stack alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
          pcre jit callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
          pcre16_jit_callback, void *);
#ifdef __cplusplus
} /* extern "C" */
#endif
#endif /* End of pcre.h */
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]
```

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In

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany

the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not

distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;

it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice. This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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15. BECAUSE THE LIBRARY

IS LICENSED FREE OF CHARGE, THERE IS NO

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OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
<name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your

```
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.
 Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
/* GMODULE - GLIB wrapper code for dynamic module loading
* Copyright (C) 1998 Tim Janik
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Lesser General Public License for more details.
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>.
* Modified by the GLib Team and others 1997-2000. See the AUTHORS
* file for a list of people on the GLib Team. See the ChangeLog
* files for a list of changes. These files are distributed with
* GLib at ftp://ftp.gtk.org/pub/gtk/.
*/
#ifndef GMODULE H
#define __GMODULE_H__
#include <glib.h>
G_BEGIN_DECLS
/* exporting and importing functions, this is special cased
* to feature Windows dll stubs.
*/
#define G_MODULE_IMPORT extern
#ifdef G_PLATFORM_WIN32
```

```
# define G_MODULE_EXPORT __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
# define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */
typedef enum
G_MODULE_BIND_LAZY = 1 << 0,
G_MODULE_BIND_LOCAL = 1 << 1,
G_MODULE_BIND_MASK = 0x03
} GModuleFlags;
typedef struct _GModule GModule;
typedef const gchar* (*GModuleCheckInit) (GModule *module);
            (*GModuleUnload) (GModule *module);
/* return TRUE if dynamic module loading is supported */
GLIB AVAILABLE IN ALL
gboolean g_module_supported (void) G_GNUC_CONST;
/* open a module 'file_name' and return handle, which is NULL on error */
GLIB_AVAILABLE_IN_ALL
GModule*
                                   (const gchar *file_name,
                g_module_open
      GModuleFlags flags);
/* close a previously
opened module, returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean
               g_module_close
                                  (GModule
                                              *module);
/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void
             g_module_make_resident (GModule
                                                *module);
/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
const gchar *
                g_module_error
                                  (void);
/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean
               g_module_symbol
                                   (GModule
                                               *module,
      const gchar *symbol_name,
      gpointer
              *symbol);
/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar *
                g_module_name
                                   (GModule
                                                *module);
```

```
* directory where the module file is supposed to be, or NULL or empty
            * in which case it should either be in the current directory
            * some operating systems, in some standard place, for instance on the
            * PATH. Hence, to be absoultely sure to get the correct module,
            * always pass in a directory. The file name consists of the directory,
            * if supplied, and 'module_name' suitably decorated according to
            * the operating system's conventions (for instance lib*.so or *.dll).
            * No checks are made that the file exists, or is of correct type.
            GLIB_AVAILABLE_IN_ALL
            gchar*
                           g_module_build_path (const gchar *directory,
                  const gchar *module_name);
            #ifndef GTK DOC IGNORE
            #ifdef G_OS_WIN32
            #define g_module_open g_module_open_utf8
            #define g module name g module name utf8
            GLIB_AVAILABLE_IN_ALL
            GModule * g module open utf8 (const gchar *file name,
                              GModuleFlags flags);
            GLIB AVAILABLE IN ALL
            const gchar *g_module_name_utf8 (GModule
                                                         *module);
            #endif
            #endif
            G_END_DECLS
            #endif /* __GMODULE_H__ */
1.8 glibc 2.22
1.8.1 Available under license:
            @c The GNU Lesser General Public License.
            @center Version 2.1, February 1999
            @c This file is intended to be included within another document,
            @c hence no sectioning command or @node.
            @display
            Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
            51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

/* Build the actual file name containing a module. 'directory' is the

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@subheading Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free

Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation

will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,

either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a

@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must

cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this

License.

@item

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy. This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a `work that uses the Library'. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a `work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a `work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a `work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise,

if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a

@item

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable,

and (2) will operate

properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at

least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy. @end enumerate

For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

@item

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1.9 gnutls 3.3.17.1

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1.10 grep 2.21

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1.11 libpcap 1.6.2

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1.12 libusb 1.0.19

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1.15 curl 7.58.0

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1.16 dhcp 4.3.6

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino < jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
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-->
<!-- $Id$ -->
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
<xsl:stylesheet version="1.0"</pre>
```

```
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">
<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  \langle xsl:text \rangle \& #10; \langle /xsl:text \rangle
 <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
 <xsl:if test="translate($rest, '&#9;&#32;', ")">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
  </xsl:if>
</xsl:template>
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>
<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text">
    <xsl:for-each select="book/info/copyright"> 
 <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
  <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
  <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
     <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>&#10;</xsl:text>
</xsl:for-each>
```

```
<xsl:value-of select="$isc.copyright.text"/>
   </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
<!--
- Local variables:
- mode: sgml
- End:
-->
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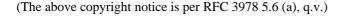
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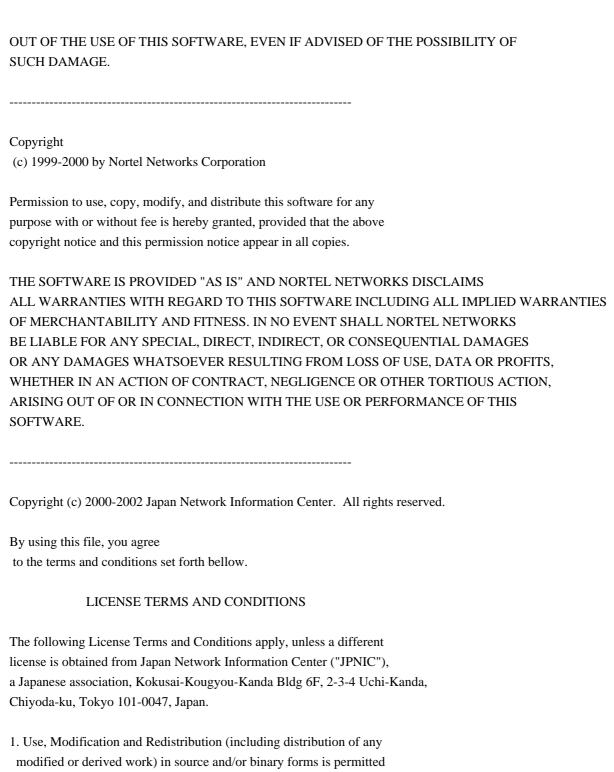
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1.18 ethtool 4.0

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1.19 libnettle6 3.1.1

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 3, 29 June 2007

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1.24 libdaemon 0.14

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1.25 perl 5.22.0

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abstract: 'Build and install Perl modules'

author

- 'Ken Williams < kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the \nModule-Build mailing list at <module-build@perl.org>."

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl meta-spec:

url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: 1.4

name: Module-Build

resources:

MailingList: mailto:module-build@perl.org



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The End
#!perl
=head1 NAME
copyright.t
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

use strict; use Config;

=cut

```
BEGIN { require './test.pl' }
if ($Config{usecrosscompile}) {
skip_all( "Not all files are available during cross-compilation" );
}
my (\$opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();
# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
my current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current
year';
is $readme_year, $current_year, 'README copyright includes current year';
}
# Otherwise simply check that the two copyright dates match each other:
else
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;
sub readme_year
# returns the latest copyright year from the top-level README file
open my $readme, '<', '../README' or die "Opening README failed: $!";
# The copyright message is the first paragraph:
local \$/=";
my $copyright_msg = <$readme>;
my (\$year) = \$copyright\_msg = \sim /.* \setminus b(\setminus d\{4,\})/s
   or die "Year not found in README copyright message '$copyright_msg'";
$year;
sub v_year
```

```
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
  or die "Copyright statement not found in perl -v output '$output'";

$year;
}
```

1.26 log-rotate 3.9.1

1.26.1 Available under license:

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1.27 libnss-mdns 0.10

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1.31 popt 1.16

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1.33 libx11 1.6.3

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1.34 libsmi 0.5.0

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--long-options.

Keywords: programming, library, lib, commandline, options

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Alternate-site: sunsite.unc.edu /pub/Linux/libs

shhopt-1.1.2.tar.gz

Platforms: Requires ANSI C-compiler.

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1.35 xz 5.2.1

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1.36 bridgeutils 1.6

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@ignore

@c Set file name and title for man page.

@setfilename gpl

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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b) Use a suitable shared library mechanism for linking with the

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Version 3.1, 31 March 2009

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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@c Special handling for inclusion in the install manual.

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@ifnothtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnothtml

@html

<h1 align="center">Installing GCC: GNU Free Documentation License</h1>

@end html

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@unnumbered GNU Free Documentation License

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@end ifset

@c man begin DESCRIPTION
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@node GNU Free Documentation License
@unnumbered
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@cindex FDL, GNU Free Documentation License @center Version 1.3, 3 November 2008

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```
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```

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1.63 usbutils 012

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The of the start-stop-daemon

- * A rewrite
- of the original Debian's start-stop-daemon Perl script
- * in C (faster it is executed many times during system startup).

*

- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.66 sysv-init 2.88

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- * A rewrite
- of the original Debian's start-stop-daemon Perl script
- * in C (faster it is executed many times during system startup).

*

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| [Tcl/Tk] | | |

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[Misc C library code]

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[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format). */

[dialyzer]

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[eldap]

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1.68 mmc-utils 0.1

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/*

* HMAC-SHA-224/256/384/512 implementation

* Last update: 06/15/2005

* Issue date: 06/15/2005

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0.1/3rdparty/hmac_sha/hmac_sha2.h

*

 $/opt/cola/permits/1741886228_1689059825.1554258/0/mmc-utils-0-1-tar-gz$

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- * /opt/cola/permits/1741886228_1689059825.1554258/0/mmc-utils-0-1-tar-gz/mmc-utils-0.1/mmc_cmds.c No license file was found, but licenses were detected in source scan.

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- * Last update: 02/02/2007
- * Issue date: 04/30/2005

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*

 $/opt/cola/permits/1741886228_1689059825.1554258/0/mmc-utils-0-1-tar-gz/mz-utils-0-1-tar-gz/mz-utils-0-1-tar$

0.1/3rdparty/hmac_sha/sha2.h

1.69 tftp-hpa 5.2

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*

 $/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp$

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 $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.c$

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Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp Version: 5.2 Release: 1 License: BSD

Group: Applications/Internet

 $Source 0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-\% \{version\}.tar.gz$

BuildRequires: tcp_wrappers-devel BuildRoot: % {_tmppath}/% {name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user

interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

```
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd
%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides
the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.
%prep
% setup -q -n tftp-hpa-% {version}
%build
%configure
make % { ?_smp_mflags }
%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}% {_bindir}
mkdir -p ${RPM_BUILD_ROOT}% {_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \
 SBINDIR=% {_sbindir} MANDIR=% {_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/tftp
%post server
/sbin/service xinetd reload > /dev/null 2>&1 \parallel :
%postun server
if [$1 = 0]; then
 /sbin/service xinetd reload > /dev/null 2>&1 || :
fi
%clean
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
%defattr(-,root,root)
% {_bindir}/tftp
%{\underline{mandir}/man1/*}
%files
server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
%dir/tftpboot
% {_sbindir}/in.tftpd
% {_mandir}/man8/*
%changelog
* Tue Sep 14 2004 H. Peter Anvin < hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.
* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt
* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- Add /tftpboot directory (#88204)
* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers
* Wed Jan 22 2003 Tim Powers < timp@redhat.com>
- rebuilt
* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32
* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30
* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476
```

- * Fri Jun
- 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild
- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29
- * Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild
- * Wed Jan 09 2002 Tim Powers < timp@redhat.com>
- automated rebuild
- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)
- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.
- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one
- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x
- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
- to tftp-hpa-0.16
- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-1" flag to hpa-tftpd for file-logging (#26467)
- added description for "-1" to the man-page
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).
- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %% post is needed by server, not client. Add %% postun for erasure as well.
- * Wed Aug 23 2000

Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled
- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.
- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody
- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).
- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd
- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild
- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.
- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description
- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).
- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary
- * Tue

Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server
- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.
- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)
- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)
- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.
- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root
- * Mon Apr 27 1998 Prospector System < bugs@redhat.com>
- translations modified for de, fr, tr
- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

 $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1 License: BSD

Group: Applications/Internet

 $Source 0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-\% \{version\}.tar.gz$

BuildRequires: tcp_wrappers-devel
BuildRoot: % {_tmppath}/% {name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user

interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed. %package server Group: System Environment/Daemons Summary: The server for the Trivial File Transfer Protocol (TFTP). Requires: xinetd %description server The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems. %prep %setup -q -n tftp-hpa-% {version}

```
%build
%configure
make % { ?_smp_mflags }
%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}% {_bindir}
mkdir -p ${RPM_BUILD_ROOT}% {_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \
 SBINDIR=% {_sbindir} MANDIR=% {_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/tftp
%post server
/sbin/service xinetd reload > /dev/null 2>&1 \parallel :
%postun server
if [$1 = 0]; then
 /sbin/service xinetd reload > /dev/null 2>&1 || :
fi
%clean
```

rm -rf \${RPM_BUILD_ROOT}

```
%files
%defattr(-,root,root)
% {_bindir}/tftp
%{\underline{mandir}/man1/*}
%files
server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
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* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
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- * Wed Aug
- 23 2000 Nalin Dahyabhai <nalin@redhat.com>
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- change user from root to nobody
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- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
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- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd
- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild
- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.
- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
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- fix description
- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
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- tftpd should truncate file when overwriting (#412)
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- auto rebuild in the new build environment (release 22)
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- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

 $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$

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Found in path(s):

 $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$

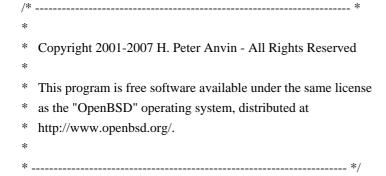
No license file was found, but licenses were detected in source scan.

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Found in path(s):

 $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/MCONFIG.in$

No license file was found, but licenses were detected in source scan.



Found in path(s):

- $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$
- $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$
- $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp-hpa-5.2/tftp-hpa-6.2/tft$

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Found in path(s):

 $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$

No license file was found, but licenses were detected in source scan.

| /* | * |
|-----|--|
| * | |
| * | Copyright 2001-2006 H. Peter Anvin - All Rights Reserved |
| * | |
| * | This program is free software available under the same license |
| * | as the "OpenBSD" operating system, distributed at |
| * | http://www.openbsd.org/. |
| * | |
| * _ | */ |

Found in path(s):

- $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$
- $*/opt/cola/permits/1820789344_1697168617.6683886/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tft$

1.70 util-linux 2.26.0

1.70.1 Available under license:

NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
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Version 3, 29 June 2007

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The

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Version 2.1, February 1999

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Any executables containing that work also fall under Section 6,

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the work with the complete corresponding

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#!/usr/bin/env bash

MIT licenses will each have a unique MD5 sum since they contain a unique copyright.

This script will read the license file into memory, strip out the copyright, and then

generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.

set -e

```
calculate_md5_sum() {
 local FILE="$1"
```

Read the contents of the file into a variable

```
local raw_license_text=$(<"$FILE")</pre>
```

Convert to lowercase

```
local lowercase_license_text="${raw_license_text,,}"
```

Remove anything before the beginning of the license

local stripped_license_text=\$(awk '/permission is hereby granted,/{p=1} p' <<< "\$lowercase_license_text")

```
# Replace line breaks (Windows or Linux) with a single space local replaced_linebreaks=$(tr \r\n''' <<< "$stripped_license_text")
```

Replace multiple spaces with a single space
local normalized_license_text=\$(tr -s '' <<< "\$replaced_linebreaks")</pre>

Strip away any non-printable, non-whitespace characters local clean_unprintable_license_text=\$(tr -cd '[:print:][:space:]' <<< "\$normalized_license_text")

Remove punctuation and special characters

```
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')
# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
# Output the MD5 sum
echo "$MD5SUM"
# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi
# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
;9GimCN7g
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
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```

1.71 pam 1.3.1

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1.72 e2fsprogs 1.42.9

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

```
+++ tdbsa/tdb.c
```

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

- Unix SMB/CIFS implementation.
- + trivial database library standalone version
- trivial database library private includes

-

- Copyright (C) Andrew Tridgell 2005
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 - ** NOTE! The following LGPL license applies to the tdb
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Gadi Oxman, August 1995

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```
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
# In order to use this stub, the following makefile variables must be defined.
#BSDLIB_VERSION = 1.0
# BSDLIB IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
all:: image
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image: $(BSD_LIB)
$(BSD LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB).
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
 `echo $(my_dir) | sed -e 's;lib/;; \^$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
 $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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| Theodore Ts'o |
|---------------|
| 23-June-2007 |
| |
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| |

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.73 python 2.7.9

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release | Deriv | ed Yea | r Own | er GPL- | | |
|---------------------------------------|----------|----------|----------|-----------------|--|--|
| | from | | com | compatible? (1) | | |
| | | | | | | |
| 0.9.0 thr | ru 1.2 | 1991-1 | 995 CWI | [yes | | |
| 1.3 thru 1.5.2 1.2 1995-1999 CNRI yes | | | | | | |
| 1.6 | 1.5.2 | 2000 | CNRI | no | | |
| 2.0 | 1.6 | 2000 | BeOpen.o | com no | | |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) | | |
| 2.1 | 2.0+1.6 | .1 2001 | PSF | no | | |
| 2.0.1 | 2.0+1.6 | 5.1 2001 | PSF | yes | | |
| 2.1.1 | 2.1+2.0 | 0.1 2001 | PSF | yes | | |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes | | |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes | | |
| 2.2 and above | | | | | | |
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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|------------|----------|----------|----------|--------------|
| | from | | com | patible? (1) |
| | | | | _ |
| 0.9.0 thru | 1.2 | 1991- | 1995 CW | I yes |
| 1.3 thru 1 | .5.2 1.2 | 1995 | -1999 CN | RI yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.o | com no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6. | .1 2001 | PSF | no |
| 2.0.1 | 2.0+1.6 | 5.1 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0 | 0.1 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
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2.2 and above 2.1.1 2001-now PSF yes

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1.78 pcre 8.41

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel Email local part: ph10 Email domain: cam.ac.uk

University of Cambridge Computing Service, Cambridge, England.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg Email local part: hzmester Email domain: freemail.hu

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1.79 python-pip 6.0.8

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1.80 python-setuptools 12.0.5

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Found in path(s):

- $*/opt/cola/permits/1826612424_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/__init__.py$
- */opt/cola/permits/1826612424_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/version.py
- * /opt/cola/permits/1826612424_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/_structures.py
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- $*/opt/cola/permits/1826612424_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/_compat.py$

*

/opt/cola/permits/1826612424_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/pkg_resources/_vendor/packaging/__about__.py
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Building and Distributing Packages with Setuptools

"Setuptools" is a collection of enhancements to the Python "distutils" (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module`_ (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

- * Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)
- * Create `Python Eggs > a single-file importable distribution format
- * Enhanced support for accessing data files hosted in zipped packages.
- * Automatically include all packages in your source tree, without listing them individually in setup.py
- * Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.
- * Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

- * Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)
- * Command aliases create project-specific, per-user, or site-wide shortcut names for commonly used commands and options
- * PyPI upload support upload your source distributions and eggs to PyPI
- * Deploy your project in "development mode", such that it's available on ``sys.path``, yet can still be edited directly from its source checkout.
- * Easily extend the distutils with new commands or ``setup()`` arguments, and distribute/reuse your extensions for multiple projects, without copying code.
- * Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Python SVN sandbox`_, and in-development versions of the `0.6 branch`_ are available as well.

- .. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06
- .._Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev
- .. contents:: **Table of Contents**
- .. _ez_setup.py: `bootstrap module`_

Developer's Guide

Installing "setuptools"

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's ``site-packages`` directory.

 $..\ _EasyInstall\ Installation\ Instructions:\ easy_install.html \# installation-instructions$

_Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run::

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```
from setuptools import setup, find_packages
setup(
   name = "HelloWorld",
   version = "0.1",
   packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Just by doing the above, this project will be able to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script.

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

# Project uses reStructuredText, so ensure that the docutils get
# installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],
```

```
package_data = {
    # If any package contains *.txt or *.rst files, include them:
    ": ['*.txt', '*.rst'],
    # And include any *.msg files found in the 'hello' package, too:
    'hello': ['*.msg'],
},

# metadata for upload to PyPI
author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/", # project home page, if any
# could also include long_description, download_url, classifiers, etc.
)
```

In the sections that follow, we'll explain what most of these ``setup()`` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than

``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version "2.4rc1", "2.4pre1" and "2.4preview1" are all the exact same version as "2.4c1", and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used

to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the indevelopment version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

*

Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9a.dev`` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ``pkg_resources.parse_version()`` function to compare different version numbers::

```
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you

have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

- * `Tagging and "Daily Build" or "Snapshot" Releases`_
- * `Managing "Continuous Releases" Using Subversion`_
- * The 'egg_info'_ command

New and Changed ``setup()`` Keywords

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.

``include_package_data``

If set to ``True``, this tells ``setuptools`` to automatically include any data files it finds inside your package directories, that are either under CVS or Subversion control, or which are specified by your ``MANIFEST.in`` file. For more information, see the section below on `Including Data Files`_.

"`exclude_package_data"

A dictionary mapping package names to lists of glob patterns that should

be *excluded* from your package directories. You can use this to trim back any excess files included by ``include_package_data``. For a complete description and examples, see the section below on `Including Data Files`_.

``package_data``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_. You do not need to use this option if you are using ``include_package_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

"zip safe"

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the ``bdist_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

"install_requires"

A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

"entry_points"

A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins`_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`_.

"extras require"

A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

"setup requires"

A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the ./.eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ``install_requires`` **and** ``setup_requires``.)

"dependency links"

A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into

the egg's metadata for use by tools like EasyInstall to use when installing an ``.egg`` file.

``namespace_packages``

A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ``zope`` package is a namespace package, because subpackages like ``zope.interface`` and ``zope.publisher`` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's ``__init__.py`` does not contain any

code other than a namespace declaration. See the section below on `Namespace Packages`_ for more information.

"`test_suite``

A string naming a ``unittest.TestCase`` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a ``unittest.TestSuite``. If the named suite is a module, and the module has an ``additional_tests()`` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test`_ command to run the specified test suite, e.g. via ``setup.py test``. See the section on the `test`_ command below for more details.

"tests require"

If your project's tests need one or more additional packages besides those needed to install it, you can use this

option to specify them. It should

be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the ``test`` command, ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

``test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the ``loadTestsFromNames()`` method as defined

in the Python ``unittest`` module's ``TestLoader`` class. Setuptools will pass only one test "name" in the `names` argument:

the value supplied for

the ``test_suite`` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a ``test_suite`` string.

The module name and class name must be separated by a ``:``. The default value of this argument is ``"setuptools.command.test:ScanningLoader"``. If you want to use the default ``unittest`` behavior, you can specify ``"unittest:TestLoader"`` as your ``test_loader`` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the ``tests_require`` option to ensure that the package containing the loader class is available when the ``test`` command is run.

"`eager_resources"

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project

imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource ``foo.png`` in package ``bar.baz``, you would include the string ``bar/baz/foo.png`` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`_.

"use 2to3"

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

"convert_2to3_doctests"

List of doctest source files that need to be converted with 2to3.

See :doc:`python3` for more details.

"use 2to3 fixers"

A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

```
Using ``find_packages()``
```

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same

directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``"src"`` or ``"lib"`` as the first argument to ``find_packages()``. (And such projects also need something

like ``package_dir = {":'src'}`` in their
``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose last name part is ``tests``. Or, ``find_packages(exclude=["*.tests", "*.tests.*"])`` will also exclude any subpackages of packages named ``tests``, but it still won't exclude a top-level ``tests`` package or the children thereof. In fact, if you really want no ``tests`` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests."])
```

in order to cover

all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the ``find_packages()`` function returns a list of package names suitable for use as the ``packages`` argument to ``setup()``, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the ``-m`` option

only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an ``.exe`` file so that users don't have to change their ``PATHEXT`` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called ``foo`` and ``bar``, and a GUI script called ``baz``, you might do something like this::

```
setup(
    # other arguments here...
entry_points={
    'console_scripts': [
        'foo = my_package.some_module:main_func',
        'bar = other_module:some_func',
     ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
     ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install".

"setup.py develop", or by using EasyInstall), a set of ``foo``,
``bar``, and ``baz`` scripts will be installed that import ``main_func`` and
``some_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``, so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on `Declaring Extras`_. For more information

```
on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`_.
```

```
"Eggsecutable" Scripts
```

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

```
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
            ]
        }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main_func()`` from ``my_package.some_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a ``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, ``pkg_resources`` will know what project and version is in use. The header script will check this and exit with an error if the ``.egg`` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``setuntools`` supports automatically installing depende

[&]quot;setuptools" supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that

package management tools like EasyInstall can use the information).

"setuptools" and "pkg_resources" use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators "<", ">="", "=="" or "!=", followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with "-".

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``">1, >2"`` becomes ``">1"``, and ``"<2,<3"`` becomes ``"<3"``). ``"!="`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3
# comment lines and \ continuations are allowed in requirement strings BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \ ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the "install_requires" argument to "setup()". It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

- 1. When your project is installed, either by using EasyInstall, ``setup.py install``, or ``setup.py develop``, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
- 2. Any scripts in your project will be installed with wrappers that verify

the availability of the specified dependencies at runtime, and ensure that the correct versions are added to ``sys.path`` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do *not* need to use the ``require()`` function in your scripts or modules, as long as you either install the project or use ``setup.py develop`` to do development work on it. (See `"Development Mode"`_ below for more details on using ``setup.py develop``.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils "sdist" format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to ``setup()``.

The URLs must be either:

- 1. direct download URLs,
- 2. the URLs of web pages that contain direct download links, or
- 3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge ``showfiles.php`` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you must include an ``"#egg=project-version"`` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file as an egg.

In the case of a VCS checkout, you should also append "#egg=project-version"

in order to identify for what package that checkout should be used. You can append ``@REV`` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

```
- ``svn+URL`` for Subversion,- ``git+URL`` for Git, and- ``hg+URL`` for Mercurial
```

A more complete example would be:

"vcs+proto://host/path@revision#egg=project-version"

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```
setup(
    ...

dependency_links = [
        "http://peak.telecommunity.com/snapshots/"
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ["ReportLab>=1.2", "RXP"],
    'reST': ["docutils>=0.3"],
     }
)
```

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
setup(
  name="Project-A",
  ...
  entry_points = {
    'console_scripts': [
        'rst2pdf = project_a.tools.pdfgen [PDF]',
        'rst2html = project_a.tools.htmlgen',

# more script entry points ...
    ],
  }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
setup(
  name="Project-B",
  install_requires = ["Project-A[PDF]"],
  ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note,

by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras_require`` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```
setup(
  name="Project-A",
  ...
  extras_require = {
    'PDF': [],
    'reST': ["docutils>=0.3"],
  }
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three

ways to specify data files to be included in your packages. First, you can simply use the ``include_package_data`` keyword, e.g.::

```
from setuptools import setup, find_packages setup(
...
include_package_data = True
```

)

This tells setuptools to install any data files it finds in your packages.

The data files must be under CVS or Subversion control, or else they must be specified via the distutils' ``MANIFEST.in`` file. (They can also be tracked by another revision control system, using an appropriate plugin. See the section below on `Adding Support for Other Revision Control Systems`_ for information on how to write such plugins.)

If the data files are not under version control, or are not in a supported version control system, or if you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package_data`` keyword,

```
e.g.::
```

```
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ": ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
setup.py
src/
mypkg/
__init__.py
mypkg.txt
data/
somefile.dat
otherdata.dat
```

The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {":'src'},
```

```
package_data = {
    # If any package contains *.txt files, include them:
    ": ['*.txt'],
    # And include any *.dat files found in the 'data' subdirectory
    # of the 'mypkg' package, also:
    'mypkg': ['data/*.dat'],
}
```

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``\^`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in ``setuptools``, it was also added to the Python ``distutils`` package as of

Python 2.4; there is `some documentation for the feature`__ available on the python.org website. If using the setuptools-specific ``include_package_data`` argument, files specified by ``package_data`` will *not* be automatically added to the manifest unless they are tracked by a supported version control system, or are listed in the MANIFEST.in file.)

```
__ http://docs.python.org/dist/node11.html
```

Sometimes, the ``include_package_data`` or ``package_data`` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an ``exclude_package_data`` option as well, that allows you to do things like this::

```
from setuptools import setup, find_packages
setup(
...
packages = find_packages('src'), # include all packages under src
package_dir
= {":'src'}, # tell distutils packages are under src
include_package_data = True, # include everything in source control
# ...but exclude README.txt from all packages
```

```
exclude_package_data = { ": ['README.txt'] },
)
```

The ``exclude_package_data`` option is a dictionary mapping package names to lists of wildcard patterns, just like the ``package_data`` option. And, just as with that option, a key of ``"` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package_data`` or were included as a result of using ``include_package_data``.

In summary, the three options allow you to:

"include_package_data"

Accept all data files and directories matched by "MANIFEST.in" or found in source control.

"package_data"

Specify additional patterns to match files and directories that may or may not be matched by "MANIFEST.in" or found in source control.

"exclude_package_data"

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API`_ of ``pkg_resources`` to access them. The ``pkg_resources`` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_ for

a quick example of converting code that uses "__file__" to use

"pkg_resources" instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management .. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

The ``distutils`` normally install general "data files" to a platform-specific location (e.g. ``/usr/share``). This feature intended to be used for things like documentation, example configuration files, and the like. ``setuptools`` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`_, by specifying a ``Requirement`` instead of a package name::

from pkg_resources import Requirement, resource_filename filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory,

you can use ``resource_filename()`` with the directory name to get a filesystem directory that then can be copied with the ``shutil`` module. (Even if your package is installed as a zipfile, calling ``resource_filename()`` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C

extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()``, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll`, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
 )
 setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
 )
 setup(
    # ...
    entry_points = """
      [blogtool.parsers]
       .rst = some.nested.module:SomeClass.some_classmethod [reST]
    extras_require = dict(reST = "Docutils>=0.3.5")
 )
The ``entry_points`` argument to ``setup()``
accepts either a string with
".ini"-style sections, or a dictionary mapping entry point group names to
```

either strings or lists of strings containing entry point specifiers. An

entry point specifier consists of a name and value, separated by an ``=`` sign. The value consists of a dotted module name, optionally followed by a ``:`` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to ``pkg_resources.require()``, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the ``pkg_resources`` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their ``ProjectName.egg-info`` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to ``setup()``, in much the same way that ``setuptools`` does for many of the ``setup()`` arguments it adds. See the section below on `Creating distutils Extensions`_ for more details, especially the subsection on `Adding new EGG-INFO Files` .

"Development Mode"

Under normal circumstances, the ``distutils`` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the ``distutils`` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your

preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually

install anything. Instead, it creates a special ``.egg-link`` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's ``site-packages`` directory, it will also update the ``easy-install.pth`` file to include your project's source code, thereby making it available on ``sys.path`` for all programs using that Python installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link`` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the ``setup.py develop`` will build Python 3 code under the ``build`` directory, and link there. This means that after doing code changes you will have to run ``setup.py build`` before these changes are picked up by your Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this::

python -c "import setuptools; execfile('setup.py')" develop

That is, you can simply list the normal setup commands and options following the quoted part.

| Distributing | a ``setuj | otools``-ba | sed project | . | |
|--------------|-----------|-------------|-------------|--------------|--|
| | | | | | |

```
Using "setuptools"... Without bundling it!
```

Your users might not have ``setuptools`` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_, and put it in the same directory as your ``setup.py`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python
import ez_setup
ez_setup.use_setuptools()
```

That's it. The ``ez_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' ``ez_setup.py`` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py

sdist upload`` or ``setup.py bdist_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist bdist_egg upload`` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``, you can specify the exact version and base download URL as parameters to the ``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions

don't

apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy install``.

Network Access

If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download

all the eggs to a single directory,

then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network access can just use ``-f`` with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Subversion or CVS Users and Co-Developers

Users and co-developers who are tracking your in-development code using CVS, Subversion, or some other revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use ``setup.py develop`` when tracking your in-development code,

you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run ``setup.py clean --all`` and delete any obsolete ``.pyc`` or ``.pyo``. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ``easy_install``!

Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and

``bdist_dumb`` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils

``install`` command, it should be able to work with ``setuptools``. Some examples of "bdist" formats that this

should work with include the

``bdist_rsi`` and ``bdist_msi`` formats for Windows

``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running ``setup.py install`` on the command line or as a subprocess will require modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options.

See the `install command`_ documentation below for more details. The ``bdist_deb`` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the ``zip_safe`` flag

For maximum performance, Python packages are best installed as zip files.

Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's ``zip_safe`` flag.

You can pass a True or False value for the "zip_safe" argument to the

"setup()" function, or you can omit it. If you omit it, the "bdist_egg" command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the ``bdist_egg`` authors aren't yet comfortable asserting that

the project *will* work. If the project contains no C or data files, and does no ``__file__`` or ``__path__`` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses ``pkg_resources`` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime`_ section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using

EasyInstall to install your package. And, if you want to override for testing purposes, you can just run ``setup.py easy_install --zip-ok .`` or ``setup.py easy_install --always-unzip .`` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the ``pkg_resources`` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe`` flag, so that it will not be necessary for ``bdist_egg`` or ``EasyInstall`` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages"

are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its ``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```
setup(
    # ...
    namespace_packages = ['zope']
)
```

because it contains a ``zope.interface`` package that lives in the ``zope``

namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line::

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects

are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in

order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE

~~~~~~~~~~~~

Setuptools automatically calls ``declare\_namespace()`` for you at runtime, but future versions may \*not\*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages

during the initialization of the ``pkg\_resources`` runtime, and also the need for ``pkg\_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare\_namespace()`` calls in your ``\_\_init\_\_.py`` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

| Tagging and | "Daily B | Build" or | "Snapshot" | Releases |
|-------------|----------|-----------|------------|----------|
|             |          |           |            |          |

## When

a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

\* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number

```
(``--tag-build=STRING, -bSTRING``)
```

- \* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)
- \* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg\_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg\_info`\_ command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`\_ for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably

also check out the `rotate`\_ command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

setup.py egg\_info -rbDEV bdist\_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the 'alias' command, which would let each package define an alias like 'daily' that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run 'setup.py daily' in each project directory. (And, you could also define sitewide or per-user default versions of the 'daily' alias, so that projects that didn't define their own would use the appropriate defaults.)

| Generating | Source | Distri | butions |
|------------|--------|--------|---------|
|------------|--------|--------|---------|

-----

``setuptools`` enhances the distutils' default algorithm for source file selection, so that all files managed by CVS or Subversion in your project tree are included in any source distribution you build. This is a big improvement over having to manually write a ``MANIFEST.in`` file and try to keep it in sync with your project. So, if you are using CVS or Subversion, and your source distributions only need to include files that you're tracking in revision control, don't create a a ``MANIFEST.in`` file for your project. (And, if you already have one, you might consider deleting it the next time you would otherwise have to change it.)

(NOTE: other revision control systems besides CVS and Subversion can be supported using plugins; see the section below on `Adding Support for Other Revision Control Systems`\_ for information on how to write such plugins.)

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's ``.egg-info`` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

(By the way, if you're using some other revision control system, you might consider creating and publishing a `revision control plugin for setuptools`\_.)

| $\dots$ _revision control plugin for setup<br>tools: | `Adding Support for Other Revision Control Systems`_ |
|------------------------------------------------------|------------------------------------------------------|
|                                                      |                                                      |

Making your package available for EasyInstall

If you use the ``register`` command (``setup.py register``) to register your

package with PyPI, that's most of the battle right there. (See the `docs for the register command`\_ for more details.)

.. \_docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload`\_ command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download

them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There are three ``setup()`` arguments that affect EasyInstall:

"`url' and 'download\_url'

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

``long\_description``

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts

to determine a project name and optional version number from the text of a primary link \*without\* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ``url`` or ``download\_url`` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace ``project`` and ``version`` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence

than other kinds

of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of "projectname".

Managing "Continuous Releases" Using Subversion

\_\_\_\_\_

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```
.. code-block:: ini

[egg_info]

tag_build = .dev

tag_svn_revision = 1
```

This will tell ``setuptools``
to generate package version numbers like

``1.0a1.dev-r1263``, which will be considered to be an \*older\* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg\_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the \*next\* version of your software, not the last released version.

Alternately, you can leave out the ``tag\_build=.dev``, and always use the \*last\* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering

on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install\_requires`` (or other requirements) to include ``==dev``, e.g.:

.. code-block:: python

install\_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ``#egg=OtherProject-dev`` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on

the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run "setup.py develop" after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ``setup.py develop`` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ``setup.cfg``, so that you don't end up registering versions like ``foobar-0.7a1.dev-r34832``.

This is

easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ``setup.cfg`` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

python setup.py egg\_info -RDb "" sdist bdist\_egg register upload

The first part of this command (`egg\_info -RDb ""``) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ``setup.py``, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

python setup.py alias -u release egg info -RDb ""

You can then use it like this::

python setup.py release sdist bdist\_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the 'egg\_info'\_ and 'alias'\_ commands for more ideas.

Distributing Extensions compiled with Pyrex

-----

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, \*not\* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in CVS or Subversion will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

Command Reference

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..\_alias:

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg\_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg\_info`` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
--tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate
both
```

The above commands are interpreted as if the word ``daily`` were replaced with ``egg\_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias \*at most once\* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist\_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist\_egg`` because the alias is only expanded once when

You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

#### Aliases can be

defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`\_ (listed under the `saveopts`\_ command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

"bdist\_egg" - Create a Python Egg for the project

This command generates a Python Egg (``.egg`` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to ``sys.path`` directly, or they can be placed in a directory on ``sys.path`` and then automatically discovered by the egg runtime system.

This command runs the `egg\_info`\_ command (if it hasn't already run) to update the project's metadata (``.egg-info``) directory. If you have added any extra metadata files to the ``.egg-info`` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use ``bdist\_egg`` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``

Set the directory where the ``.egg`` file will be placed. If you don't supply this, then the ``--dist-dir`` setting of the ``bdist`` command will be used, which is usually a directory

named ``dist`` in the project directory.

## ``--plat-name=PLATFORM, -p PLATFORM``

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

#### ``--exclude-source-files``

Don't include any modules' ``.py`` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any ``.py`` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a ``.py``

extension which must still be retained.) We don't

recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's ``traceback`` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar ``bdist`` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``

Keep the contents of the ``--bdist-dir`` tree around after creating the ``.egg`` file.

#### ``--bdist-dir=DIR, -b DIR``

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the ``.egg`` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``

Skip doing any "build" commands; just go straight to the install-and-compress phases.

"`develop" - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ``develop`` command works by creating an ``.egg-link`` file (named for the project) in the given staging area. If the staging area is Python's ``site-packages``

directory, it also updates an ``easy-install.pth`` file so that the project is on ``sys.path`` by default for all programs run using that Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ``sys.path`` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build\_ext -i`` command to ensure any C extensions in the project have been built and are up-to-date, and the ``egg\_info`` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the ``develop`` command against all relevant staging areas to keep

the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ``develop``, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ``develop`` or ``test`` commands to keep the distribution updated.

Here are some of the options that the ``develop`` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ``--exclude-scripts`` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ``develop`` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``

Un-deploy the current project. You may use the ``--install-dir`` or ``-d``
option to designate

the staging area. The created ``.egg-link`` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from ``easy-install.pth`` if the staging area is Python's ``site-packages`` directory.

Note that this option currently does \*not\* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the ``--exclude-scripts`` (aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents ``develop`` from adding an ``easy-install.pth`` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version

of the package is available for importing, unless you use "pkg\_resources.require()" to put it on "sys.path", or you are running a wrapper script generated by "setuptools" or EasyInstall. (In which case the wrapper script calls "require()" for you.)

Note that if you install to a directory other than ``site-packages``, this option is automatically in effect, because ``.pth`` files can only be used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use the ``--install-dir`` or ``-d`` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multiversion mode.

## ``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the ``site-packages`` directory, but if you are using distutils configuration files, setting things like ``prefix`` or ``install\_lib``, then those settings are taken into account when computing the default staging area.

# ``--script-dir=DIR, -s DIR``

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you \*have\* supplied an ``--install-dir`` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

<sup>``--</sup>exclude-scripts, -x``

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``

Copy all needed distributions to the staging area, even if they are already

present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

# ``--egg-path=DIR``

Force the generated ``.egg-link`` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same \*relative\* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of the same options accepted by ``easy\_install``. If you've configured any ``easy\_install`` settings in your ``setup.cfg`` (or other distutils config files), the

"'develop" command will use them as defaults, unless you override them in a "[develop]" section or on the command line.

``easy\_install`` - Find and install packages

This command runs the `EasyInstall tool <easy\_install.html>`\_ for you. It is exactly equivalent to running the ``easy\_install`` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use ``easy\_install`` directly. It's only listed here so that you know it's a distutils command, which means that you can:

- \* create command aliases that use it,
- \* create distutils extensions that invoke it as a subcommand, and
- \* configure options for it in your ``setup.cfg`` or other distutils config files.

.. \_egg\_info:

\_\_\_\_\_

This command performs two operations: it updates a project's ``.egg-info`` metadata directory (used by the ``bdist\_egg``, ``develop``, and ``test`` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the ``sdist``, ``bdist\_egg``, ``develop``, ``register``, and ``test`` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the``.egg-info/SOURCES.txt`` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and required by ``pkg\_resources``, this command can be extended to write other metadata files as well, by defining entry points in the ``egg\_info.writers`` group. See the section on `Adding new EGG-INFO Files`\_ below for more details. Note that using additional metadata writers may require you to include a ``setup\_requires`` argument to ``setup()`` in order to ensure that the desired writers are available on ``sys.path``.

## **Release Tagging Options**

-----

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

## ``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered \*lower\* than

the project's default version. (If you

want to make the version number \*higher\* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your ``setup.cfg``, you can suppress it on the command line using ``-b ""`` or ``--tag-build=""`` as an argument to the ``egg\_info`` command.

If the current directory is a Subversion checkout (i.e. has a ``.svn``

<sup>``--</sup>tag-svn-revision, -r``

subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the ``svn info`` command.

If the current directory is not a Subversion checkout, the command will look for a "PKG-INFO" file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is

so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no ``PKG-INFO`` file, or the version number contained therein does not end with ``-r`` and a number, then ``-rO`` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``

Add a date stamp of the form "-YYYYMM

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

"--no-date, -D"

Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See

the section above on `Specifying Your Project's

Version`\_ for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's ``.egg-info`` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other ``egg\_info`` Options

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not

necessarily the same as your project directory; some projects use a "src" or "lib" subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the "package\_dir" argument to the "setup()" function, if any. If there is no "package\_dir" set, this option defaults to the current directory.

``egg\_info`` Examples

Creating a dated "nightly build" snapshot egg::

python setup.py egg\_info --tag-date --tag-build=DEV bdist\_egg

Creating and uploading a release with no version tags, even if some default tags are specified in ``setup.cfg``::

python setup.py egg\_info -RDb "" sdist bdist\_egg register upload

(Notice that ``egg\_info`` must always appear on the command line \*before\* any commands that you want the version changes to apply to.)

.. \_install command:

``install`` - Run ``easy\_install`` or old-style installation

\_\_\_\_\_

The setuptools ``install`` command is basically a shortcut to run the ``easy\_install`` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``
This boolean option tells the ``install``
command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you \*must\* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another distutils command, so that commands like ``bdist\_wininst`` and ``bdist\_rpm`` will create system packages of eggs. It is also automatically in effect if you specify the ``--root`` option.

\_\_\_\_\_\_

Setuptools runs this command as part of ``install`` operations that use the ``--single-version-externally-managed`` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``

The parent directory where the ``.egg-info`` directory will be placed. Defaults to the same as the ``--install-dir`` option specified for the ``install\_lib`` command, which is usually the system ``site-packages`` directory.

This command assumes that the ``egg\_info`` command has been given valid options via the command line or ``setup.cfg``, as it will invoke the ``egg\_info`` command and use its options to locate the project's source ``.egg-info`` directory.

.. rotate:

"rotate" - Delete outdated distribution files

\_\_\_\_\_

As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The ``rotate`` command lets you automatically clean these up, keeping only

the N most-recently modified files matching a given pattern.

# ``--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is \*required\*. The project name and ``-\*`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

# ``--keep=COUNT, -k COUNT``

Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is \*required\*.

```
``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to
the value of the
``bdist`` command's ``--dist-dir`` option, which will usually be the
project's ``dist`` subdirectory.
```

\*\*Example 1\*\*: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

\*\*Example 2\*\*: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. \_saveopts:

``saveopts`` - Save used options to a configuration file

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using

the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options`\_ to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::

setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where

"saveopts" is placed on the command line.

### **Configuration File Options**

-----

Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global ``distutils.cfg`` file inside the ``distutils``
package directory. You must have write access to that directory to use
this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or
``\$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option
with ``-g`` or ``-f`.

``--filename=FILENAME, -f FILENAME``

Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the

"distutils" and "setuptools" will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias`\_ and `setopt`\_ commands.

.. \_setopt:

"setopt" - Set a distutils or setuptools option in a config file

\_\_\_\_\_

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

\*\*Example 1\*\*. Set the default C compiler to ``mingw32`` (using long option names)::

 $setup.py\ setopt\ --command = build\ --option = compiler\ --set-value = mingw32$ 

```
**Example 2**. Remove any setting for the distutils default package installation directory (short option names)::

setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

```
``--command=COMMAND,
```

-c COMMAND``

Command to set the option for. This option is required.

```
``--option=OPTION, -o OPTION``
```

The name of the option to set. This option is required.

```
``--set-value=VALUE, -s VALUE``
```

The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.

```
``--remove, -r``
```

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`\_ (listed under the `saveopts`\_ command, above) to determine which distutils configuration file the option will be added to (or removed from).

```
.. _test:
```

"test" - Build package and run a unittest suite

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the ``develop`` command. The ``test`` command runs a

project's unit tests without actually deploying it, by temporarily putting the project's source on ``sys.path``, after first running ``build\_ext -i`` and ``egg\_info`` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest`` test suite by either a function, a ``TestCase`` class or method, or a module or package containing ``TestCase`` classes. If the named suite is a module, and the module has an ``additional\_tests()`` function, it is called and the result (which must be a ``unittest.TestSuite``) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are

recursively added to the overall test suite. (Note: if your project specifies a ``test\_loader``, the rules for processing the chosen ``test\_suite`` may differ; see the `test\_loader`\_ documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their

non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest`` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the ``-q`` or ``--quiet`` option, either as a global option to the setup script (e.g. ``setup.py -q test``) or as an option for the ``test`` command itself (e.g. ``setup.py test -q``). There is one other option available:

```
``--test-suite=NAME, -s NAME``
Specify the test suite (or module, class, or method) to be run
(e.g. ``some_module.test_suite``). The default for this option can be
set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

setup(
    # ...
    test_suite
= "my_package.tests.test_all"
    )

If you did not set a ``test_suite`` in your ``setup()`` call, and do not
provide a ``--test-suite`` option, an error will occur.

.. _upload:
```

PyPI now supports uploading project files for redistribution; uploaded files are easily found by EasyInstall, even if you don't have download links on your project's home page.

"upload" - Upload source and/or egg distributions to PyPI

Although Python 2.5 will support uploading all types of distributions to PyPI, setuptools only supports source distributions and eggs. (This is partly because PyPI's upload support is currently broken for various other file types.) To upload files, you must include the ``upload`` command \*after\* the ``sdist`` or ``bdist\_egg`` commands on the setup command line. For example::

```
setup.py bdist_egg upload # create an egg and upload it
setup.py sdist upload # create a source
distro and upload it
setup.py sdist bdist_egg upload # create and upload both
```

Note that to upload files for a project, the corresponding version must already be registered with PyPI, using the distutils ``register`` command. It's usually a good idea to include the ``register`` command at the start of the command line, so that any registration problems can be found and fixed before building and uploading the distributions, e.g.::

```
setup.py register sdist bdist_egg upload
```

This will update PyPI's listing for your project's current version.

Note, by the way, that the metadata in your ``setup()`` call determines what will be listed in PyPI for your package. Try to fill out as much of it as possible, as it will save you a lot of trouble manually adding and updating your PyPI listings. Just put it in ``setup.py`` and use the ``register`` command to keep PyPI up to date.

The ``upload`` command has a few options worth noting:

```
``--sign, -s``
Sign each uploaded file using GPG
(GNU Privacy Guard). The ``gpg`` program
must be available for execution on the system ``PATH``.
```

```
``--identity=NAME, -i NAME``

Specify the identity or key name for GPG to use when signing. The value of this option will be passed through the ``--local-user`` option of the
```

"gpg" program.

```
``--show-response``
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to
https://pypi.python.org/pypi (i.e., the main PyPI installation).
```

```
.. _upload_docs:
```

``upload\_docs`` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/

documentation directory and will post to the repository. Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils "register" command -- just like the "upload" command. Assuming there is an "Example" project with documentation in the subdirectory "docs", e.g.:: Example/ |-- example.py |-- setup.cfg |-- setup.py |-- docs | |-- build | | `-- html | | | -- index.html | | | `-- tips\_tricks.html | |-- conf.py | |-- index.txt | `-- tips\_tricks.txt You can simply pass the documentation directory path to the "upload\_docs" command:: python setup.py upload\_docs --upload-dir=docs/build/html If no ``--upload-dir`` is given, ``upload\_docs`` will attempt to run the "build\_sphinx" command to generate uploadable documentation. For the command to become available, `Sphinx <a href="http://sphinx.pocoo.org/">> \_ must be installed in the same environment as distribute. As with other ``setuptools``-based commands, you can define useful defaults in the "setup.cfg" of your Python project, e.g.: .. code-block:: ini [upload\_docs] upload-dir = docs/build/html The ``upload\_docs`` command has the following options:

The ``upload\_docs`` command will create the necessary zip file out of a

The directory to be uploaded to the repository.

``--upload-dir``

```
"`--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

"`--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).
```

Extending and Reusing Setuptools

-----

Creating "distutils" Extensions

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It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup\_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`\_ above for some more background on entry points.)

## **Adding Commands**

-----

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
}
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some\_module`` is

```
a ``setuptools.Command`` subclass.)
```

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

```
Adding ``setup()`` Arguments
```

Sometimes, your commands may need additional arguments to the ``setup()`` call. You can enable this by defining entry points in the ``distutils.setup\_keywords`` group. For example, if you wanted a ``setup()`` argument called ``bar\_baz``, you might add something like this to your distutils extension project's setup script::

The idea here is that the entry point defines a function that will be called to validate the ``setup()`` argument, if it's supplied. The ``Distribution`` object will have the initial value of the attribute set to ``None``, and the validation function will only be called if the ``setup()`` call sets it to a non-None value. Here's an example validation function::

```
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1"""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
    )
```

Your function should accept three arguments: the ``Distribution`` object, the attribute name, and the attribute value. It should raise a ``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be ``None`` when they access it later.

If more than one active distribution defines an entry point for the same ``setup()`` argument, \*all\* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils ``Distribution`` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its ``setup\_requires`` argument.

# Adding new EGG-INFO Files

-----

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the ``pkg\_resources`` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via ``setup\_requires``) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the ``egg\_info`` command is run.

The ``egg\_info`` command looks for extension points in an ``egg\_info.writers`` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument ``foo\_bar``, which is a list of lines that will be written to ``foo\_bar.txt`` in the EGG-INFO directory of any project that uses the argument::

```
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers":
```

```
[
    "foo_bar.txt = setuptools.command.egg_info:write_arg",
    ],
},
```

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
        cmd.write_or_delete_file(argname, filename, value)
```

As you can see, "egg\_info.writers" entry points must be a function taking three arguments: a "egg\_info" command instance, the basename of the file to write (e.g. "foo\_bar.txt"), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry\_run`` setting

when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object's ``write\_file()``, ``delete\_file()``, and ``write\_or\_delete\_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Other Revision Control Systems

-----

If you would like to create a plugin for ``setuptools`` to find files in other source control systems besides CVS and Subversion, you can do so by adding an entry point to the ``setuptools.file\_finders`` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```
.. code-block::
python
```

```
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in "setup\_requires". When you create a source distribution with the "sdist" command, setuptools automatically records what files were found in the "SOURCES.txt" file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

- \* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.
- \* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should NOT be rendered as ``./some/dir`` or ``/somewhere/some/dir``, but \*always\* as simply ``some/dir``
- \* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It \*may\*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``

Sorry,

this section isn't written yet, and neither is a lot of what's below this point, except for the change log. You might want to `subscribe to changes

| added or updated.                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XXX                                                                                                                                                                                                                                                               |
| Reusing ``setuptools`` Code ====================================                                                                                                                                                                                                  |
| ``ez_setup``<br>                                                                                                                                                                                                                                                  |
| XXX                                                                                                                                                                                                                                                               |
| ``setuptools.archive_util``                                                                                                                                                                                                                                       |
| XXX                                                                                                                                                                                                                                                               |
| ``setuptools.sandbox``                                                                                                                                                                                                                                            |
| XXX                                                                                                                                                                                                                                                               |
| ``setuptools.package_index``                                                                                                                                                                                                                                      |
| XXX                                                                                                                                                                                                                                                               |
| Mailing List and Bug Tracker ====================================                                                                                                                                                                                                 |
| Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce. |
| distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/setuptools bug tracker: https://bitbucket.org/pypa/setuptools/                                                                                                                         |
| Found in path(s):  */opt/cola/permits/1826612424_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/docs/setuptools.txt                                                                                                                             |

in this page <setuptools?action=subscribe>`\_ to see when new documentation is

| CHANGES                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| ======                                                                                                                                             |
|                                                                                                                                                    |
| 12.0.5                                                                                                                                             |
|                                                                                                                                                    |
| * Issue #339: Correct Attribute reference in ``cant_write_to_target``.                                                                             |
|                                                                                                                                                    |
| 12.0.4                                                                                                                                             |
|                                                                                                                                                    |
| * Issue #335: Fix script header generation on Windows.                                                                                             |
|                                                                                                                                                    |
| 12.0.3                                                                                                                                             |
|                                                                                                                                                    |
| * Fixed incorrect class attribute in ``install_scripts``. Tests would be nice.                                                                     |
| Tixed incorrect class attribute in instant_scripts . Tests would be ince.                                                                          |
| 12.0.2                                                                                                                                             |
| 12.0.2                                                                                                                                             |
| # T                                                                                                                                                |
| * Issue #331: Fixed ``install_scripts`` command on Windows systems corrupting the header.                                                          |
|                                                                                                                                                    |
| 12.0.1                                                                                                                                             |
|                                                                                                                                                    |
| * Restore ``setuptools.command.easy_install.sys_executable`` for pbr                                                                               |
| compatibility. For the future, tools should construct a CommandSpec                                                                                |
| explicitly.                                                                                                                                        |
| <del></del>                                                                                                                                        |
| 12.0                                                                                                                                               |
|                                                                                                                                                    |
| * Issue #188: Setuptools now support multiple entities in the value for                                                                            |
| "build.executable", such that an executable of "/usr/bin/env my-python" may                                                                        |
| be specified. This means that systems with a specified executable whose name has spaces in the path must be updated to escape or quote that value. |
| * Deprecated ``easy_install.ScriptWriter.get_writer``,                                                                                             |

No license file was found, but licenses were detected in source scan.

```
replaced by ``.best()``
with slightly different semantics (no force_windows flag).
11.3.1
* Issue #327: Formalize and restore support for any printable character in an
entry point name.
----
11.3
* Expose "EntryPoint.resolve" in place of EntryPoint._load, implementing the
simple, non-requiring load. Deprecated all uses of "EntryPoint._load"
except for calling with no parameters, which is just a shortcut for
"ep.require(); ep.resolve();".
Apps currently invoking ``ep.load(require=False)`` should instead do the
following if wanting to avoid the deprecating warning::
 getattr(ep, "resolve", lambda: ep.load(require=False))()
----
11.2
* Pip #2326: Report deprecation warning at stacklevel 2 for easier diagnosis.
____
11.1
* Issue #281: Since Setuptools 6.1 (Issue #268), a ValueError would be raised
in certain cases where VersionConflict was raised with two arguments, which
occurred in ``pkg_resources.WorkingSet.find``.
This release adds support
for indicating the dependent packages while maintaining support for
a VersionConflict when no dependent package context is known. New unit tests
now capture the expected interface.
11.0
* Interop #3: Upgrade to Packaging 15.0; updates to PEP 440 so that >1.7 does
not exclude 1.7.1 but does exclude 1.7.0 and 1.7.0.post1.
```

```
10.2.1
* Issue #323: Fix regression in entry point name parsing.
10.2
* Deprecated use of EntryPoint.load(require=False). Passing a boolean to a
function to select behavior is an anti-pattern. Instead use
"Entrypoint._load()".
* Substantial refactoring of all unit tests. Tests are now much leaner and
re-use a lot of fixtures and contexts for better clarity of purpose.
10.1
----
* Issue #320: Added a compatibility implementation of
``sdist._default_revctrl``
so that systems relying on that interface do not fail (namely, Ubuntu 12.04
and similar Debian
releases).
10.0.1
* Issue #319: Fixed issue installing pure distutils packages.
____
10.0
* Issue #313: Removed built-in support for subversion. Projects wishing to
retain support for subversion will need to use a third party library. The
extant implementation is being ported to `setuptools_svn
<a href="https://pypi.python.org/pypi/setuptools_svn">\cdot_.
* Issue #315: Updated setuptools to hide its own loaded modules during
installation of another package. This change will enable setuptools to
upgrade (or downgrade) itself even when its own metadata and implementation
change.
```

9.1

| * Prefer vendored packaging library `as recommended <a href="https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcommeng109448">https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcommeng109448</a> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                     |
| 9.0.1                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                     |
| * Issue #312: Restored presence of pkg_resources API tests (doctest) to sdist.                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                     |
| 9.0                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                     |
| * Issue #314: Disabled support for ``setup_requires`` metadata to avoid issue                                                                                                                                                                                                       |
| where Setuptools was unable to upgrade over earlier versions.                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                     |
| 8.4                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                     |
| * Pull Request #106: Now write ``setup_requires`` metadata.                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                     |
| 8.3                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                     |
| * Issue #311: Decoupled pkg_resources from setuptools once again.                                                                                                                                                                                                                   |
| ``pkg_resources`` is now a package instead of a module.                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                     |
| 8.2.1                                                                                                                                                                                                                                                                               |
| * Issue #306: Suppress warnings about Version format except in select scenarios (such as installation).                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                     |
| 8.2                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                     |
| * Pull Request #85: Search egg-base when adding egg-info to manifest.                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                     |

8.1

---

```
* Upgrade ``packaging`` to 14.5, giving preference to "rc" as designator for
release candidates over "c".
* PEP-440 warnings are now raised as their own class,
"pkg_resources.PEP440Warning", instead of RuntimeWarning.
* Disabled warnings on empty versions.
8.0.4
----
* Upgrade ``packaging`` to 14.4, fixing an error where there is a
different result for if 2.0.5 is contained within >2.0dev and >2.0.dev even
though normalization rules should have made them equal.
* Issue #296: Add warning when a version
is parsed as legacy. This warning will
make it easier for developers to recognize deprecated version numbers.
----
8.0.3
----
* Issue #296: Restored support for ``_hash__`` on parse_version results.
----
8.0.2
____
* Issue #296: Restored support for ``__getitem__`` and sort operations on
parse_version result.
8.0.1
* Issue #296: Restore support for iteration over parse_version result, but
deprecated that usage with a warning. Fixes failure with buildout.
8.0
pkg_resources and setuptools. This change
deprecates some version numbers such that they will no longer be installable
without using the ``===`` escape hatch. See `the changes to test_resources
```

```
setuptools/tests/test_resources.py>`_
for specific examples of version numbers and specifiers that are no longer
supported.
Setuptools now "vendors" the `packaging
<a href="https://github.com/pypa/packaging">> library.</a>
7.0
* Issue #80, Issue #209: Eggs that are downloaded for ``setup_requires``,
"test_requires", etc. are now placed in a "./.eggs" directory instead of
directly in the current directory. This choice of location means the files
can be readily managed (removed, ignored). Additionally,
later phases or invocations of setuptools will not detect the package as
already installed and ignore it for permanent install (See #209).
This change is indicated as backward-incompatible as installations that
depend on the installation in the current directory will need to account for
the new location. Systems that ignore ``*.egg`` will probably need to be
adapted to ignore ``.eggs``. The files will need to be manually moved or
will be retrieved again. Most use cases will require no attention.
6.1
* Issue #268: When resolving package versions, a VersionConflict now reports
 which package previously required the conflicting version.
____
6.0.2
* Issue #262: Fixed regression in pip install due to egg-info directories
being omitted. Re-opens Issue #118.
----
6.0.1
* Issue #259: Fixed regression with namespace package handling on ``single
version, externally managed `installs.
6.0
```

- \* Issue #100: When building a distribution, Setuptools will no longer match default files using platform-dependent case sensitivity, but rather will only match the files if their case matches exactly. As a result, on Windows and other case-insensitive file systems, files with names such as 'readme.txt' or 'README.TXT' will be omitted from the distribution and a warning will be issued indicating that 'README.txt' was not found. Other filenames affected are:
  - README.rst
  - README
  - setup.cfg
  - setup.py (or the script name)
  - test/test\*.py

Any users producing distributions with filenames that match those above case-insensitively, but not case-sensitively, should rename those files in their repository for better portability.

- \* Pull Request #72: When using ``single\_version\_externally\_managed``, the exclusion list now includes Python 3.2 ``\_\_pycache\_\_`` entries.
- \* Pull Request #76 and Pull Request #78: lines in top\_level.txt are now ordered deterministically.
- \* Issue #118: The egg-info directory is now no longer included in the list of outputs.
- \* Issue #258: Setuptools now patches distutils msvc9compiler to recognize the specially-packaged compiler package for easy extension module support on Python 2.6, 2.7, and 3.2.

5.8

---

\* Issue #237: ``pkg\_resources`` now uses explicit detection of Python 2 vs. Python 3, supporting environments where builtins have been patched to make Python 3 look more like Python 2.

5.7

٥.1

\* Issue #240: Based on real-world performance measures against 5.4, zip manifests are now cached in all circumstances. The

``PKG\_RESOURCES\_CACHE\_ZIP\_MANIFESTS``

environment variable is no longer relevant. The observed "memory increase" referenced in the 5.4 release notes and detailed in Issue #154 was likely not an increase over the status quo, but rather only an increase over not storing the zip info at all.

---

| * Issue #185: Make svn tagging work on the new style SVN metadata.                        |  |
|-------------------------------------------------------------------------------------------|--|
| Thanks cazabon!                                                                           |  |
| * Prune revision control directories (e.g .svn) from base path                            |  |
| as well as sub-directories.                                                               |  |
|                                                                                           |  |
|                                                                                           |  |
| 5.2                                                                                       |  |
|                                                                                           |  |
|                                                                                           |  |
| * Added a `Developer Guide                                                                |  |
| <a href="https://pythonhosted.org/setuptools/developer-guide.html"> _ to the official</a> |  |
| documentation.                                                                            |  |
| * Some code refactoring and cleanup was done with no intended behavioral                  |  |
| changes.                                                                                  |  |
| * During install_egg_info, the generated lines for namespace package .pth                 |  |
| files are now processed even during a dry run.                                            |  |
|                                                                                           |  |
|                                                                                           |  |
| 5.1                                                                                       |  |
|                                                                                           |  |
|                                                                                           |  |
| * Issue #202: Implemented more robust cache invalidation for the ZipImporter,             |  |
| building on the work in                                                                   |  |
| Issue #168. Special thanks to Jurko Gospodnetic and                                       |  |
| PJE.                                                                                      |  |
|                                                                                           |  |
|                                                                                           |  |
| 5.0.2                                                                                     |  |
|                                                                                           |  |
|                                                                                           |  |
| * Issue #220: Restored script templates.                                                  |  |
|                                                                                           |  |
|                                                                                           |  |
| 5.0.1                                                                                     |  |
|                                                                                           |  |
|                                                                                           |  |
| * Renamed script templates to end with .tmpl now that they no longer need                 |  |
| to be processed by 2to3. Fixes spurious syntax errors during build/install.               |  |
|                                                                                           |  |
|                                                                                           |  |
| 5.0                                                                                       |  |
|                                                                                           |  |
|                                                                                           |  |
| * Issue #218: Re-release of 3.8.1 to signal that it supersedes 4.x.                       |  |
| * Incidentally, script templates were updated not to include the triple-quote             |  |
| escaping.                                                                                 |  |

| 3.7.1 and 3.8.1 and 4.0.1                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                       |
| * Issue #213: Use legacy StringIO behavior for compatibility under pbr.  * Issue #218: Setuptools 3.8.1 superseded 4.0.1, and 4.x was removed from the available versions to install. |
|                                                                                                                                                                                       |
| 4.0                                                                                                                                                                                   |
|                                                                                                                                                                                       |
|                                                                                                                                                                                       |
| * Issue #210: ``setup.py develop`` now copies scripts in binary mode rather than text mode, matching the behavior of the ``install`` command.                                         |
|                                                                                                                                                                                       |
| 3.8                                                                                                                                                                                   |
|                                                                                                                                                                                       |
|                                                                                                                                                                                       |
| * Extend Issue #197 workaround to include all Python 3 versions prior to 3.2.2.                                                                                                       |
|                                                                                                                                                                                       |
| 3.7                                                                                                                                                                                   |
|                                                                                                                                                                                       |
|                                                                                                                                                                                       |
| * Issue                                                                                                                                                                               |
| #193: Improved handling of Unicode filenames when building manifests.                                                                                                                 |
|                                                                                                                                                                                       |
| 3.6                                                                                                                                                                                   |
|                                                                                                                                                                                       |
|                                                                                                                                                                                       |
| * Issue #203: Honor proxy settings for Powershell downloader in the bootstrap routine.                                                                                                |
|                                                                                                                                                                                       |
| 3.5.2                                                                                                                                                                                 |
|                                                                                                                                                                                       |
|                                                                                                                                                                                       |
| * Issue #168: More robust handling of replaced zip files and stale caches. Fixes ZipImportError complaining about a 'bad local header'.                                               |
|                                                                                                                                                                                       |
| 3.5.1                                                                                                                                                                                 |
|                                                                                                                                                                                       |
|                                                                                                                                                                                       |
| * Issue #199: Restored ``installinstall`` for compatibility with earlier                                                                                                              |

| NumPy versions.                                                                |
|--------------------------------------------------------------------------------|
|                                                                                |
|                                                                                |
| 3.5                                                                            |
|                                                                                |
|                                                                                |
| * Issue #195: Follow symbolic links in find_packages (restoring behavior       |
| broken in 3.4).                                                                |
| * Issue #197: On Python 3.1, PKG-INFO is now saved in a UTF-8 encoding instead |
| of ``sys.getpreferredencoding` to match the behavior on Python 2.6-3.4.        |
| * Issue #192: Preferred bootstrap location is now                              |
| https://bootstrap.pypa.io/ez_setup.py (mirrored from former location).         |
| https://bootstrap.pypa.io/ez_setup.py (hinrored from former focation).         |
|                                                                                |
| 2.4.4                                                                          |
| 3.4.4                                                                          |
|                                                                                |
|                                                                                |
| * Issue #184: Correct failure where find_package over-matched packages         |
| when directory traversal isn't short-circuited.                                |
|                                                                                |
|                                                                                |
| 3.4.3                                                                          |
|                                                                                |
|                                                                                |
| * Issue                                                                        |
| #183: Really fix test command with Python 3.1.                                 |
|                                                                                |
|                                                                                |
| 3.4.2                                                                          |
|                                                                                |
|                                                                                |
| * Issue #183: Fix additional regression in test command on Python 3.1.         |
|                                                                                |
|                                                                                |
| 3.4.1                                                                          |
|                                                                                |
|                                                                                |
| * Issue #180: Fix regression in test command not caught by py.test-run tests.  |
| 185de #100.1 IN regression in test command not caught by pyticst run tests.    |
|                                                                                |
| 3,4                                                                            |
| J.T                                                                            |
|                                                                                |
| * Isono #176. Add more motor to the test servered to servere                   |
| * Issue #176: Add parameter to the test command to support a custom test       |
| runner:test-runner or -r.                                                      |
| * Issue #177: Now assume most common invocation to install command on          |
| platforms/environments without stack support (issuing a warning). Setuptools   |
| now installs naturally on IronPython. Behavior on CPython should be            |

```
unchanged.
3.3
* Add ``include`` parameter to ``setuptools.find packages()``.
3.2
* Pull Request #39: Add support for C++ targets from Cython ``.pyx`` files.
* Issue #162: Update dependency on certifi to 1.0.1.
* Issue #164: Update dependency on wincertstore to 0.2.
3.1
* Issue #161: Restore Features functionality to allow backward compatibility
(for Features) until the uses of that functionality
is sufficiently removed.
----
3.0.2
* Correct typo in previous bugfix.
----
3.0.1
* Issue #157: Restore support for Python 2.6 in bootstrap script where
``zipfile.ZipFile`` does not yet have support for context managers.
3.0
* Issue #125: Prevent Subversion support from creating a ~/.subversion
directory just for checking the presence of a Subversion repository.
* Issue #12: Namespace packages are now imported lazily. That is, the mere
declaration of a namespace package in an egg on "sys.path" no longer
causes it to be imported when "pkg_resources" is imported. Note that this
change means that all of a namespace package's ``__init__.py`` files must
```

include a ``declare\_namespace()`` call in order to ensure that they will be

handled properly at runtime. In 2.x it was possible to get away without including the declaration, but only at the cost of forcing namespace packages to be imported early, which 3.0 no longer does. \* Issue #148: When building (bdist\_egg), setuptools no longer adds ``\_\_init\_\_.py`` files to namespace packages. Any packages that rely on this behavior will need to create `` init .py`` files and include the "`declare\_namespace()". \* Issue #7: Setuptools itself is now distributed as a zip archive in addition to tar archive. ez setup.py now uses zip archive. This approach avoids the potential security vulnerabilities presented by use of tar archives in ez\_setup.py. It also leverages the security features added to ZipFile.extract in Python 2.7.4. \* Issue #65: Removed deprecated Features functionality. \* Pull Request #28: Remove backport of ``\_bytecode\_filenames`` which is available in Python 2.6 and later, but also has better compatibility with Python 3 environments. \* Issue #156: Fix spelling of \_\_PYVENV\_LAUNCHER\_\_ variable. 2.2 \* Issue #141: Restored fix for allowing setup\_requires dependencies to override installed dependencies during setup. \* Issue #128: Fixed issue where only the first dependency link was honored in a distribution where multiple dependency links were supplied. ----2.1.2 \_\_\_\_ \* Issue #144: Read long\_description using codecs module to avoid errors installing on systems where LANG=C. 2.1.1 \* Issue #139: Fix regression in re\_finder for CVS repos (and maybe Git repos as well). 2.1

in a zip-imported file.

\* Issue #129: Suppress inspection of ``\*.whl`` files when searching for files



- 2. If that returns US\_ASCII or None, try the encoding from "getdefaultlocale". If that encoding was a "fallback" because Python could not figure it out from the environment or OS, encoding remains unresolved.
- 3. If the encoding is resolved, then make sure Python actually implements the encoding.
- 4. On the event of an error or unknown codec, revert to fallbacks (UTF-8 on Darwin, ASCII on everything else).
- 5. On the encoding is 'mac-roman' on Darwin, use UTF-8 as 'mac-roman' was a bug on older Python releases.

On a side note, it would seem that the encoding only matters for when SVN does not yet support ``--xml`` and when getting repository and svn version numbers. The ``--xml`` technique should yield UTF-8 according to some messages on the SVN mailing lists. So if the version numbers are always 7-bit ASCII clean, it may be best to only support the file parsing methods for legacy SVN releases and support for SVN without the subprocess command would simple go away as support for the older SVNs does.

```
1.4
---
* Issue #27: ``easy_install`` will now use credentials from .pypirc if
present for connecting to the package index.
* Pull Request #21: Omit unwanted newlines in ``package_index._encode_auth``
when the username/password
pair length indicates wrapping.
1.3.2
* Issue #99: Fix filename encoding issues in SVN support.
1.3.1
* Remove exuberant warning in SVN support when SVN is not used.
1.3
* Address security vulnerability in SSL match_hostname check as reported in
```

Python #17997.

\* Prefer `backports.ssl\_match\_hostname

| <a href="https://pypi.python.org/pypi/backports.ssl_match_hostname">https://pypi.python.org/pypi/backports.ssl_match_hostname</a> for backport                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| implementation if present.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| * Correct NameError in ``ssl_support`` module (``socket.error``).                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| * Issue #26: Add support for SVN 1.7. Special thanks to Philip Thiem for the contribution.  * Issue #93: Wheels are now distributed with every release. Note that as reported in Issue #108, as of Pip 1.4, scripts aren't installed properly from wheels. Therefore, if using Pip to install setuptools from a wheel, the ``easy_install`` command will not be available.  * Setuptools "natural" launcher support, introduced in 1.0, is now officially supported. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fixed behavior of NameError handling in 'script template (dev).py' (script                                                                                                                                                                                                                                                                                                                                                                                           |
| launcher for 'develop' installs).                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| * ``ez_setup.py`` now ensures partial downloads are cleaned up following                                                                                                                                                                                                                                                                                                                                                                                             |
| a failed download.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| * Distribute #363 and Issue #55: Skip an sdist test that fails on locales                                                                                                                                                                                                                                                                                                                                                                                            |
| other than UTF-8.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| * Distribute #349: ``sandbox.execfile`` now opens the target file in binary mode, thus honoring a BOM in the file when compiled.                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| * Issue #69: Second attempt at fix (logic was reversed).                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| * Issue #77: Fix error in upload command (Python 2.4).                                                                                                                                                                                                                                                                                                                                                                                                               |

```
1.1.3
* Fix NameError in previous patch.
1.1.2
----
* Issue #69: Correct issue where 404 errors are returned for URLs with
fragments in them (such as #egg=).
----
1.1.1
* Issue #75: Add ``--insecure`` option to ez setup.py to accommodate
environments where a trusted SSL connection cannot be validated.
* Issue #76: Fix AttributeError in upload command
with Python 2.4.
1.1
---
* Issue #71 (Distribute #333): EasyInstall now puts less emphasis on the
condition when a host is blocked via ``--allow-hosts``.
* Issue #72: Restored Python 2.4 compatibility in ``ez_setup.py``.
1.0
* Issue #60: On Windows, Setuptools supports deferring to another launcher,
such as Vinay Sajip's `pylauncher <a href="https://bitbucket.org/pypa/pylauncher">> _
(included with Python 3.3) to launch console and GUI scripts and not install
its own launcher executables. This experimental functionality is currently
only enabled if the "SETUPTOOLS_LAUNCHER" environment variable is set to
"natural". In the future, this behavior may become default, but only after
it has matured and seen substantial adoption. The "SETUPTOOLS_LAUNCHER"
also accepts "executable" to force the default behavior of creating launcher
executables.
* Issue #63: Bootstrap script (ez_setup.py) now prefers Powershell, curl, or
wget for retrieving the Setuptools tarball
for improved security of the
install. The script will still fall back to a simple "urlopen" on
platforms that do not have these tools.
```

- \* Issue #65: Deprecated the ``Features`` functionality.
- \* Issue #52: In ``VerifyingHTTPSConn``, handle a tunnelled (proxied) connection.

#### **Backward-Incompatible Changes**

\_\_\_\_\_

This release includes a couple of backward-incompatible changes, but most if not all users will find 1.0 a drop-in replacement for 0.9.

- \* Issue #50: Normalized API of environment marker support. Specifically, removed line number and filename from SyntaxErrors when returned from `pkg\_resources.invalid\_marker`. Any clients depending on the specific string representation of exceptions returned by that function may need to be updated to account for this change.
- \* Issue #50: SyntaxErrors generated by `pkg\_resources.invalid\_marker` are normalized for cross-implementation consistency.
- \* Removed ``--ignore-conflicts-at-my-risk`` and ``--delete-conflicting`` options to easy\_install. These options have been deprecated since 0.6a11.

\* Issue #53: Fix NameErrors in `\_vcs\_split\_rev\_from\_url`.

---0.9.7

- \* Issue #49: Correct AttributeError on PyPy where a hashlib.HASH object does not have a `.name` attribute.
- \* Issue #34: Documentation now refers to bootstrap script in code repository referenced by bookmark.
- \* Add underscore-separated keys to environment markers (markerlib).

0.9.6

\* Issue #44: Test failure on Python 2.4 when MD5 hash doesn't have a `.name` attribute.

0.9.5

\* Python #17980: Fix security vulnerability in SSL certificate validation.

| 0.9.4                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                     |  |
| * Issue #43: Fix issue (introduced in 0.9.1) with version resolution when upgrading over other releases of Setuptools.              |  |
| 0.9.3                                                                                                                               |  |
|                                                                                                                                     |  |
| * Issue #42: Fix new ``AttributeError`` introduced in last fix.                                                                     |  |
| 0.9.2                                                                                                                               |  |
| <del></del>                                                                                                                         |  |
| * Issue #42: Fix regression where blank checksums would trigger an ``AttributeError``.                                              |  |
|                                                                                                                                     |  |
| 0.9.1                                                                                                                               |  |
|                                                                                                                                     |  |
| *                                                                                                                                   |  |
| Distribute #386: Allow other positional and keyword arguments to os.open.  * Corrected dependency on certifi mis-referenced in 0.9. |  |
|                                                                                                                                     |  |
| 0.9                                                                                                                                 |  |
|                                                                                                                                     |  |
| * `package_index` now validates hashes other than MD5 in download links.                                                            |  |
|                                                                                                                                     |  |
| 0.8                                                                                                                                 |  |
|                                                                                                                                     |  |
| * Code base now runs on Python 2.4 - Python 3.3 without Python 2to3 conversion.                                                     |  |
|                                                                                                                                     |  |
| 0.7.8                                                                                                                               |  |
|                                                                                                                                     |  |
|                                                                                                                                     |  |

\* Distribute #375: Yet another fix for yet another regression.

```
0.7.7
----
* Distribute #375: Repair AttributeError created in last release (redo).
* Issue #30: Added test for get_cache_path.
----
0.7.6
* Distribute #375: Repair AttributeError created in last release.
----
0.7.5
----
* Issue #21: Restore Python 2.4 compatibility in ``test_easy_install``.
* Distribute #375: Merged additional warning from Distribute 0.6.46.
* Now honor the environment variable
``SETUPTOOLS_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT`` in addition to the now
deprecated ``DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT``.
0.7.4
----
Issue #20: Fix comparison of parsed SVN version on Python 3.
----
0.7.3
* Issue #1: Disable installation of Windows-specific files on non-Windows systems.
* Use new sysconfig module with Python 2.7 or >=3.2.
----
0.7.2
* Issue #14: Use markerlib when the `parser` module is not available.
* Issue #10: ``ez_setup.py`` now uses HTTPS to download setuptools from PyPI.
0.7.1
```

| * Fix NameError (Issue #3) again - broken in bad merge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Merged Setuptools and Distribute. See docs/merge.txt for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Added several features that were slated for setuptools 0.6c12:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| * Index URL now defaults to HTTPS.  * Added experimental environment marker support. Now clients may designate a PEP-426 environment marker for "extra" dependencies. Setuptools uses this feature in ``setup.py`` for optional SSL and certificate validation support on older platforms. Based on Distutils-SIG discussions, the syntax is somewhat tentative. There should probably be a PEP with a firmer spec before the feature should be considered suitable for use.  * Added support for SSL certificate validation when installing packages from |
| an HTTPS service.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 0.7b4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| * Issue #3: Fixed NameError in SSL support.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 0.6.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Move warning check in ``get_cache_path`` to follow the directory creation to avoid errors when the cache path does not yet exist. Fixes the error reported in Distribute #375.                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 0.6.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Correct AttributeError in ``ResourceManager.get_cache_path`` introduced in 0.6.46 (redo).                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 0.6.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Correct AttributeError in ``ResourceManager.get_cache_path`` introduced in 0.6.46.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| * Distribute #375: Issue a warning if the PYTHON_EGG_CACHE or otherwise customized egg cache location specifies a directory that's group- or world-writable.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.6.46                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| customized egg cache location specifies a directory that's group- or world-writable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |
| * Distribute #379: ``distribute_setup.py`` now traps VersionConflict as well, restoring ability to upgrade from an older setuptools version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | customized egg cache location specifies a directory that's group- or                                                      |
| restoring ability to upgrade from an older setuptools version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                           |
| restoring ability to upgrade from an older setuptools version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                           |
| ** "distribute_setup.py" has been updated to allow Setuptools 0.7 to satisfy use_setuptools.   0.6.43  ** Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).   ** External links finder no longer yields duplicate links.  ** Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   0.6.41  ** Distribute #27: Use public api for loading resources from zip files rather than the private method `zip_directory_cache`.  ** Added a new function ``easy_install.get_win_launcher`` which may be used by | restoring ability to upgrade                                                                                              |
| *``distribute_setup.py`` has been updated to allow Setuptools 0.7 to satisfy use_setuptools.   0.6.43  * Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).   External links finder no longer yields duplicate links.  Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by         |                                                                                                                           |
| satisfy use_setuptools.   0.6.43  * Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).   0.6.42  * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                          | 0.6.44                                                                                                                    |
| satisfy use_setuptools.   0.6.43  * Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).   0.6.42  * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                          |                                                                                                                           |
| * Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).   0.6.42  * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                    |                                                                                                                           |
| * Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).   0.6.42  * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                    |                                                                                                                           |
| * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                       | 0.6.43                                                                                                                    |
| * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                       |                                                                                                                           |
| * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                               | * Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).                                          |
| * External links finder no longer yields duplicate links.  * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).   0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                               |                                                                                                                           |
| * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).  0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                                                                           | 0.6.42                                                                                                                    |
| * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).  0.6.41  * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                                                                           |                                                                                                                           |
| <ul> <li>0.6.41</li> <li>* Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.</li> <li>* Added a new function ``easy_install.get_win_launcher`` which may be used by</li> </ul>                                                                                                                                                                                                                                                                                                                                                            | * Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old                                           |
| * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                           |
| * Distribute #27: Use public api for loading resources from zip files rather than the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                                                                                                                                                                                                                        | 0.6.41                                                                                                                    |
| the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | the private method `_zip_directory_cache`.  * Added a new function ``easy_install.get_win_launcher`` which may be used by |

| 0.6.40                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                  |
| * Distribute #376: brought back cli.exe and gui.exe that were deleted in the previous release.                                                                                                                                                                                                                                                                                                                   |
| 0.6.39<br>                                                                                                                                                                                                                                                                                                                                                                                                       |
| * Add support for console launchers on ARM platforms.  * Fix possible issue in GUI launchers where the subsystem was not supplied to the linker.  * Launcher build script now refactored for robustness.  * Distribute #375: Resources extracted from a zip egg to the file system now also check the contents of the file against the zip contents during each invocation of get_resource_filename.             |
| <br>0.6.38<br>                                                                                                                                                                                                                                                                                                                                                                                                   |
| * Distribute #371: The launcher manifest file is now installed properly.                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 0.6.37                                                                                                                                                                                                                                                                                                                                                                                                           |
| * Distribute #143: Launcher scripts, including easy_install itself, are now accompanied by a manifest on 32-bit Windows environments to avoid the Installer Detection Technology and thus undesirable UAC elevation described in `this Microsoft article <a href="http://technet.microsoft.com/en-us/library/cc709628%28WS.10%29.aspx">http://technet.microsoft.com/en-us/library/cc709628%28WS.10%29.aspx</a> . |
| <br>0.6.36<br>                                                                                                                                                                                                                                                                                                                                                                                                   |
| * Pull Request #35: In Buildout #64, it was reported that under Python 3, installation of distutils scripts could attempt to copy the ``_pycache`` directory as a file, causing an error, apparently only under Windows. Easy_install now skips all directories when processing metadata scripts.                                                                                                                |
| 0.6.35                                                                                                                                                                                                                                                                                                                                                                                                           |

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Note this release is backward-incompatible with distribute 0.6.23-0.6.34 in how it parses version numbers.

\* Distribute #278: Restored compatibility with distribute 0.6.22 and setuptools 0.6. Updated the documentation to match more closely with the version parsing as intended in setuptools 0.6.

0.6.34

-----

\* Distribute #341: 0.6.33 fails to build under Python 2.4.

0.6.33

----

- \* Fix 2 errors with Jython 2.5.
- \* Fix 1 failure with Jython 2.5 and 2.7.
- \* Disable workaround for Jython scripts on Linux systems.
- \* Distribute #336: `setup.py` no longer masks failure exit code when tests fail.
- \* Fix issue in pkg\_resources where try/except around a platform-dependent import would trigger hook load failures on Mercurial. See pull request 32 for details.
- \* Distribute #341: Fix a ResourceWarning.

0 - 0

0.6.32

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- \* Fix test suite with Python 2.6.
- \* Fix some

DeprecationWarnings and ResourceWarnings.

\* Distribute #335: Backed out `setup\_requires` superceding installed requirements until regression can be addressed.

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0.6.31

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- \* Distribute #303: Make sure the manifest only ever contains UTF-8 in Python 3.
- \* Distribute #329: Properly close files created by tests for compatibility with Jython.
- \* Work around Jython #1980 and Jython #1981.
- \* Distribute #334: Provide workaround for packages that reference `sys.\_\_stdout\_\_`

such as numpy does. This change should address `virtualenv #359 <a href="https://github.com/pypa/virtualenv/issues/359">https://github.com/pypa/virtualenv/issues/359</a> as long as the system encoding is UTF-8 or the IO encoding is specified in the environment, i.e.::

## PYTHONIOENCODING=utf8 pip install numpy

- \* Fix for encoding issue when installing from Windows executable on Python 3.
- \* Distribute #323: Allow `setup\_requires` requirements to supercede installed requirements. Added some new keyword arguments to existing pkg\_resources methods. Also had

to updated how \_\_path\_\_ is handled for namespace packages to ensure that when a new egg distribution containing a namespace package is placed on sys.path, the entries in \_\_path\_\_ are found in the same order they would have been in had that egg been on the path when pkg\_resources was first imported.

0.6.30

\* Distribute #328: Clean up temporary directories in distribute\_setup.py.

\* Fix fatal bug in distribute\_setup.py.

0.6.29

- \* Pull Request #14: Honor file permissions in zip files.
- \* Distribute #327: Merged pull request #24 to fix a dependency problem with pip.
- \* Merged pull request #23 to fix https://github.com/pypa/virtualenv/issues/301.
- \* If Sphinx is installed, the `upload\_docs` command now runs `build\_sphinx` to produce uploadable documentation.
- \* Distribute #326: `upload\_docs` provided mangled auth credentials under Python 3.
- \* Distribute #320: Fix check for "createable" in distribute\_setup.py.
- \* Distribute #305: Remove a warning that was triggered during normal operations.
- \* Distribute #311: Print metadata in UTF-8 independent of platform.
- \* Distribute #303: Read manifest file with UTF-8 encoding under Python 3.
- \* Distribute #301: Allow to run tests of namespace packages when using 2to3.
- \* Distribute #304: Prevent import loop in site.py under Python 3.3.
- \* Distribute #283: Reenable scanning of `\*.pyc` / `\*.pyo` files on Python 3.3.
- \* Distribute #299: The develop command didn't work on Python 3, when using 2to3, as the egg link would go to the Python 2 source. Linking to the 2to3'd code in build/lib makes it work, although you will have to rebuild the module before testing it.
- \* Distribute #306: Even if 2to3 is used, we build in-place under Python 2.
- \* Distribute #307: Prints the full path when .svn/entries is broken.

\* Distribute #314: test\_local\_index() would fail an OS X. \* Distribute #310: Non-ascii characters in a namespace \_\_init\_\_.py causes errors. Distribute #218: Improved documentation on behavior of `package\_data` and `include\_package\_data`. Files indicated by `package\_data` are now included in the manifest. \* `distribute\_setup.py` now allows a `--download-base` argument for retrieving distribute from a specified location. -----0.6.28 \* Distribute #294: setup.py can now be invoked from any directory. \* Scripts are now installed honoring the umask. \* Added support for .dist-info directories. \* Distribute #283: Fix and disable scanning of `\*.pyc` / `\*.pyo` files on Python 3.3. 0.6.27 -----\* Support current snapshots of CPython 3.3. \* Distribute now recognizes README.rst as a standard, default readme file. \* Exclude 'encodings' modules when removing modules from sys.modules. Workaround for #285. \* Distribute #231: Don't fiddle with system python when used with buildout (bootstrap.py) 0.6.26 \_\_\_\_\_ \* Distribute #183: Symlinked files are now extracted from source distributions. \* Distribute #227: Easy\_install fetch parameters are now passed during the installation of a source distribution; now fulfillment of setup\_requires dependencies will honor the parameters passed to easy\_install. 0.6.25 \* Distribute #258: Workaround a cache issue \* Distribute #260: distribute\_setup.py now accepts the --user parameter for

\* Distribute #313: Support for sdist subcommands (Python 2.7)

Python 2.6 and later.

```
on Python 3.
* Distribute #269: AttributeError when an exception occurs reading Manifest.in
on late releases of Python.
* Distribute #272: Prevent TypeError when namespace package names are unicode
and single-install-externally-managed is used. Also fixes PIP issue
449.
* Distribute #273: Legacy script launchers now install with Python2/3 support.
0.6.24
_____
* Distribute #249: Added options to exclude 2to3 fixers
0.6.23
_____
* Distribute #244: Fixed a test
* Distribute #243: Fixed a test
* Distribute #239: Fixed
a test
* Distribute #240: Fixed a test
* Distribute #241: Fixed a test
* Distribute #237: Fixed a test
* Distribute #238: easy_install now uses 64bit executable wrappers on 64bit Python
* Distribute #208: Fixed parsed_versions, it now honors post-releases as noted in the documentation
* Distribute #207: Windows cli and gui wrappers pass CTRL-C to child python process
* Distribute #227: easy_install now passes its arguments to setup.py bdist_egg
* Distribute #225: Fixed a NameError on Python 2.5, 2.4
0.6.21
* Distribute #225: FIxed a regression on py2.4
0.6.20
* Distribute #135: Include url in warning when processing URLs in package_index.
* Distribute #212: Fix issue where easy_instal fails on Python 3 on windows installer.
* Distribute #213: Fix typo in documentation.
0.6.19
```

\* Distribute #262: package\_index.open\_with\_auth no longer throws LookupError

| * Distribute #206: AttributeError: 'HTTPMessage' object has no attribute 'getheaders'                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>0.6.18<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Distribute #210: Fixed a regression introduced by Distribute #204 fix.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <br>0.6.17<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Support 'DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT' environment variable to allow to disable installation of easy_install-\${version} script.  * Support Python >= 3.1.4 and >= 3.2.1.  * Distribute #204: Don't try to import the parent of a namespace package in declare_namespace  * Distribute #196: Tolerate responses with multiple Content-Length headers  * Distribute #205: Sandboxing doesn't preserve working_set. Leads to setup_requires problems. |
| <br>0.6.16<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Builds sdist gztar even on Windows (avoiding Distribute #193).  * Distribute #192: Fixed metadata omitted on Windows when package_dir specified with forward-slash.  * Distribute #195: Cython build support.  * Distribute #200: Issues with recognizing 64-bit packages on Windows.                                                                                                                                                                                   |
| <br>0.6.15<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| * Fixed typo in bdist_egg  * Several issues under Python 3 has been solved.  * Distribute #146: Fixed missing DLL files after easy_install of windows exe package.                                                                                                                                                                                                                                                                                                        |
| 0.6.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

\* Distribute #171: Fixed race condition in unittests cause deadlocks in test suite. \* Distribute #143: Fixed a lookup issue with easy\_install. Thanks to David and Zooko. \* Distribute #174: Fixed the edit mode when its used with setuptools itself 0.6.13 \* Distribute #160: 2.7 gives ValueError("Invalid IPv6 URL") \* Distribute #150: Fixed using ~/.local even in a --no-site-packages virtualenv \* Distribute #163: scan index links before external links, and don't use the md5 when comparing two distributions 0.6.12 \* Distribute #149: Fixed various failures on 2.3/2.4 \_\_\_\_\_ 0.6.11 \* Found another case of Sandbox Violation - fixed \* Distribute #15 and Distribute #48: Introduced a socket timeout of 15 seconds on url openings \* Added indexsidebar.html into MANIFEST.in \* Distribute #108: Fixed TypeError with Python3.1 \* Distribute #121: Fixed --help install command trying to actually install. \* Distribute #112: Added an os.makedirs so that Tarek's solution will work. \* Distribute #133: Added --no-find-links to easy install \* Added easy\_install --user \* Distribute #100: Fixed develop --user not taking '.' in PYTHONPATH into account \* Distribute #134: removed spurious UserWarnings. Patch by VanLindberg \* Distribute #138: cant\_write\_to\_target error when setup\_requires is used. \* Distribute #147: respect the sys.dont\_write\_bytecode flag 0.6.10 \* Reverted change made for the DistributionNotFound exception because zc.buildout uses the exception message to get the name of the distribution.

Distribute #170: Fixed unittest failure. Thanks to Toshio.

----

- \* Distribute #90: unknown setuptools version can be added in the working set
- \* Distribute #87: setupt.py doesn't try to convert distribute\_setup.py anymore Initial Patch by arfrever.
- \* Distribute #89: added a side bar with a download link to the doc.
- \* Distribute #86: fixed missing sentence in pkg\_resources doc.
- \* Added a nicer error message when
- a DistributionNotFound is raised.
- \* Distribute #80: test\_develop now works with Python 3.1
- \* Distribute #93: upload\_docs now works if there is an empty sub-directory.
- \* Distribute #70: exec bit on non-exec files
- \* Distribute #99: now the standalone easy\_install command doesn't uses a "setup.cfg" if any exists in the working directory. It will use it only if triggered by `install\_requires`` from a setup.py call (install, develop, etc).
- \* Distribute #101: Allowing ``os.devnull`` in Sandbox
- \* Distribute #92: Fixed the "no eggs" found error with MacPort (platform.mac\_ver() fails)
- \* Distribute #103: test\_get\_script\_header\_jython\_workaround not run anymore under py3 with C or POSIX local. Contributed by Arfrever.
- \* Distribute #104: remvoved the assertion when the installation fails, with a nicer message for the end user.
- \* Distribute #100: making sure there's no SandboxViolation when the setup script patches setuptools.

0.6.8

----

- \* Added "check\_packages" in dist. (added in Setuptools 0.6c11)
- \* Fixed the DONT\_PATCH\_SETUPTOOLS state.

----

0.6.7

----

- \* Distribute #58: Added --user support to the develop command
- \* Distribute #11: Generated scripts now wrap their call to the script entry point in the standard "if name == 'main'"
- \* Added the 'DONT\_PATCH\_SETUPTOOLS' environment variable, so virtualenv can drive an installation that doesn't patch a global setuptools.
- \* Reviewed unladen-swallow specific change from http://code.google.com/p/unladen-swallow/source/detail?spec=svn875&r=719 and determined that it no longer applies. Distribute should work fine with Unladen Swallow 2009Q3.

- \* Distribute #21: Allow PackageIndex.open\_url to gracefully handle all cases of a httplib.HTTPException instead of just InvalidURL and BadStatusLine.
- \* Removed virtual-python.py from this distribution and updated documentation to point to the actively maintained virtualenv instead.
- \* Distribute #64: use\_setuptools no longer rebuilds the distribute egg every time it is run
- \* use\_setuptools now properly respects the requested version
- \* use\_setuptools will no longer try to import a distribute egg for the wrong Python version
- \* Distribute #74: no fake should be True by default.
- \* Distribute #72: avoid a bootstrapping issue with easy\_install -U

-----0.6.6 -----

\* Unified the bootstrap file so it works on both py2.x and py3k without 2to3 (patch by Holger Krekel)

-----0.6.5 -----

- \* Distribute #65: cli.exe and gui.exe are now generated at build time, depending on the platform in use.
- \* Distribute #67: Fixed doc typo (PEP 381/382)
- \* Distribute no longer shadows setuptools if we require a 0.7-series setuptools. And an error is raised when installing a 0.7 setuptools with distribute.
- \* When run from within buildout, no attempt is made to modify an existing setuptools egg, whether in a shared egg directory or a system setuptools.
- \* Fixed a hole in sandboxing allowing builtin file to write outside of the sandbox.

0.6.4

\*

Added the generation of `distribute\_setup\_3k.py` during the release. This closes Distribute #52.

\* Added an upload\_docs command to easily upload project documentation to PyPI's https://pythonhosted.org. This close issue Distribute #56.

| * Fixed a bootstrap bug on the use_setuptools() API.                                                     |
|----------------------------------------------------------------------------------------------------------|
|                                                                                                          |
| 0.6.3                                                                                                    |
|                                                                                                          |
| setuptools                                                                                               |
|                                                                                                          |
| * Fixed a bunch of calls to file() that caused crashes on Python 3.                                      |
| bootstrapping                                                                                            |
| =======================================                                                                  |
| * Fixed a bug in sorting that caused bootstrap to fail on Python 3.                                      |
|                                                                                                          |
| 0.6.2                                                                                                    |
|                                                                                                          |
|                                                                                                          |
| setuptools ======                                                                                        |
|                                                                                                          |
| * Added Python 3 support; see docs/python3.txt. This closes Old Setuptools #39.                          |
| This closes of a sociaptions has.                                                                        |
| * Added option to run 2to3 automatically when installing on Python 3.  This closes issue Distribute #31. |
| This closes issue Distribute #31.                                                                        |
| * Fixed invalid usage of requirement.parse, that broke develop -d.                                       |
| This closes Old Setuptools #44.                                                                          |
| * Fixed script launcher for 64-bit Windows.                                                              |
| This closes Old Setuptools #2.                                                                           |
| * KeyError when compiling extensions.                                                                    |
| This closes Old Setuptools #41.                                                                          |
| bootstrapping                                                                                            |
| =======================================                                                                  |
| *                                                                                                        |
| Fixed bootstrap not working on Windows. This closes issue Distribute #49.                                |
| * Fixed 2.6 dependencies. This closes issue Distribute #50.                                              |
|                                                                                                          |
| * Make sure setuptools is patched when running through easy_install                                      |

| This closes Old Setuptools #40.                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.6.1                                                                                                                                                               |
| setuptools<br>======                                                                                                                                                |
| * package_index.urlopen now catches BadStatusLine and malformed url errors.  This closes Distribute #16 and Distribute #18.                                         |
| * zip_ok is now False by default. This closes Old Setuptools #33.                                                                                                   |
| * Fixed invalid URL error catching. Old Setuptools #20.                                                                                                             |
| * Fixed invalid bootstraping with easy_install installation (Distribute #40).  Thanks to Florian Schulze for the help.                                              |
| * Removed buildout/bootstrap.py. A new repository will create a specific bootstrap.py script.                                                                       |
| bootstrapping =======                                                                                                                                               |
| * The boostrap process leave setuptools alone if detected in the system androot orprefix is provided, but is not in the same location.  This closes Distribute #10. |
| <br>0.6<br>                                                                                                                                                         |
| setuptools<br>======                                                                                                                                                |
| * Packages required at build time where not fully present at install time. This closes Distribute #12.                                                              |
| * Protected against failures in tarfile extraction. This closes Distribute #10.                                                                                     |
| * Made Jython api_tests.txt doctest compatible. This closes Distribute #7.                                                                                          |
| * sandbox.py replaced builtin type file with builtin function open. This closes Distribute #6.                                                                      |

- \* Immediately close all file handles. This closes Distribute #3. \* Added compatibility with Subversion 1.6. This references Distribute #1. pkg\_resources \* Avoid a call to /usr/bin/sw\_vers on OSX and use the official platform API instead. Based on a patch from ronaldoussoren. This closes issue #5. \* Fixed a Sandbox Violation for mkdir that could occur in certain cases. This closes Distribute #13. \* Allow to find\_on\_path on systems with tight permissions to fail gracefully. This closes Distribute #9. \* Corrected inconsistency between documentation and code of add\_entry. This closes Distribute #8. \* Immediately close all file handles. This closes Distribute #3. easy\_install \* Immediately close all file handles. This closes Distribute #3. \_\_\_\_
- \* Fixed a missing files problem when using Windows source distributions on non-Windows platforms, due to distutils not handling manifest file line endings correctly.
- \* Updated Pyrex support to work with Pyrex 0.9.6 and higher.

0.6c9

- \* Minor changes for Jython compatibility, including skipping tests that can't work on Jython.
- \* Fixed not installing eggs in ``install\_requires`` if they were also used for ``setup\_requires`` or ``tests\_require``.
- \* Fixed not fetching eggs in ``install\_requires`` when running tests.
- \* Allow ``ez\_setup.use\_setuptools()`` to upgrade existing setuptools installations when called from a standalone ``setup.py``.

- \* Added a warning if a namespace package is declared, but its parent package is not also declared as a namespace.
- \* Support Subversion 1.5
- \* Removed use of deprecated ``md5`` module if ``hashlib`` is available
- \* Fixed ``bdist\_wininst upload`` trying to upload the ``.exe`` twice
- \* Fixed ``bdist\_egg`` putting a ``native\_libs.txt`` in the source package's ``.egg-info``, when it should only be in the built egg's ``EGG-INFO``.
- \* Ensure that \_full\_name is set on all shared libs before extensions are checked for shared lib usage. (Fixes a bug in the experimental shared library build support.)
- \* Fix to allow unpacked eggs containing native libraries to fail more gracefully under Google App Engine (with an ``ImportError`` loading the C-based module, instead of getting a ``NameError``).

0.6c7

----

- \* Fixed ``distutils.filelist.findall()`` crashing on broken symlinks, and ``egg\_info`` command failing on new, uncommitted SVN directories.
- \* Fix import problems with nested namespace packages installed via ``--root`` or ``--single-version-externally-managed``, due to the parent package not having the child package as an attribute.

----0.6c6

----

- \* Added ``--egg-path`` option to ``develop`` command, allowing you to force ``.egg-link`` files to use relative paths (allowing them to be shared across platforms on a networked drive).
- \* Fix not building binary RPMs correctly.
- \* Fix "eggsecutables" (such as setuptools' own egg) only being runnable with bash-compatible shells.
- \* Fix ``#!`` parsing problems in Windows ``.exe`` script wrappers, when there was whitespace inside a quoted argument or at the end of the ``#!`` line (a regression introduced in 0.6c4).

- \* Fix ``test`` command possibly failing if an older version of the project being tested was installed on ``sys.path`` ahead of the test source directory.
- \* Fix ``find\_packages()`` treating ``ez\_setup`` and directories with ``.`` in their names as packages.

0.6c5

\_\_\_\_

- \* Fix uploaded ``bdist\_rpm`` packages being described as ``bdist\_egg`` packages under Python versions less than 2.5.
- \* Fix uploaded ``bdist\_wininst`` packages being described as suitable for "any" version by Python 2.5, even if a ``--target-version`` was specified.

----

0.6c4

- \* Overhauled Windows script wrapping to support ``bdist\_wininst`` better.

  Scripts installed with ``bdist\_wininst`` will always use ``#!python.exe`` or

  ``#!pythonw.exe`` as the executable name (even when built on non-Windows platforms!), and the wrappers will look for the executable in the script's parent directory (which should find the right version of Python).
- \* Fix ``upload`` command not uploading files built by ``bdist\_rpm`` or ``bdist\_wininst`` under Python 2.3 and 2.4.
- \* Add support for "eggsecutable" headers: a ``#!/bin/sh`` script that is prepended to an ``.egg`` file to allow it to be run as a script on Unix-ish platforms. (This is mainly so that setuptools itself can have a single-file installer on Unix, without doing multiple downloads, dealing with firewalls,

etc.)

- \* Fix problem with empty revision numbers in Subversion 1.4 ``entries`` files
- \* Use cross-platform relative paths in ``easy-install.pth`` when doing ``develop`` and the source directory is a subdirectory of the installation target directory.
- \* Fix a problem installing eggs with a system packaging tool if the project contained an implicit namespace package; for example if the ``setup()`` listed a namespace package ``foo.bar`` without explicitly listing ``foo`

| as a namespace package.                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>0.6c3<br>                                                                                                                                                                                                                                                                                                                                                                                 |
| * Fixed breakages caused by Subversion 1.4's new "working copy" format                                                                                                                                                                                                                                                                                                                        |
| <br>0.6c2<br>                                                                                                                                                                                                                                                                                                                                                                                 |
| * The ``ez_setup`` module displays the conflicting version of setuptools (and its installation location) when a script requests a version that's not available.                                                                                                                                                                                                                               |
| * Running ``setup.py develop`` on a setuptools-using project will now install setuptools if needed, instead of only downloading the egg.                                                                                                                                                                                                                                                      |
| <br>0.6c1<br>                                                                                                                                                                                                                                                                                                                                                                                 |
| * Fixed ``AttributeError`` when trying to download a ``setup_requires`` dependency when a distribution lacks a ``dependency_links`` setting.                                                                                                                                                                                                                                                  |
| * Made ``zip-safe`` and ``not-zip-safe`` flag files contain a single byte, so as to play better with packaging tools that complain about zero-length files.                                                                                                                                                                                                                                   |
| * Made ``setup.py develop`` respect the ``no-deps`` option, which it previously was ignoring.                                                                                                                                                                                                                                                                                                 |
| * Support ``extra_path`` option to ``setup()`` when ``install`` is run in backward-compatibility mode.                                                                                                                                                                                                                                                                                        |
| * Source distributions now always include a ``setup.cfg`` file that explicitly sets ``egg_info`` options such that they produce an identical version number to the source distribution's version number. (Previously, the default version number could be different due to the use of ``tag-date``, or if the version was overridden on the command line that built the source distribution.) |
| <br>0.6b4                                                                                                                                                                                                                                                                                                                                                                                     |

```
"`egg_info" wasn't explicitly
run first on the same command line.
* Added ``--no-date`` and ``--no-svn-revision`` options to ``egg_info``
 command, to allow suppressing tags configured in ``setup.cfg``.
* Fixed redundant warnings about missing ``README`` file(s); it should now
 appear only if you are actually a source distribution.
0.6b3
* Fix ``bdist_egg`` not including files in subdirectories of ``.egg-info``.
* Allow ``.py`` files found by the ``include_package_data`` option to be
 automatically included. Remove duplicate data file matches if both
 "include_package_data" and "package_data" are used to refer to the same
 files.
0.6b1
* Strip ``module`` from the end of compiled extension modules when computing
 the name of a ``.py`` loader/wrapper. (Python's import machinery ignores
 this suffix when searching for an extension module.)
0.6a11
* Added ``test_loader`` keyword to support custom test loaders
* Added ``setuptools.file_finders``
entry point group to allow implementing
 revision control plugins.
* Added ``--identity`` option to ``upload`` command.
* Added ``dependency_links`` to allow specifying URLs for ``--find-links``.
* Enhanced test loader to scan packages as well as modules, and call
 ``additional_tests()`` if present to get non-unittest tests.
* Support namespace packages in conjunction with system packagers, by omitting
```

\* Fix ``register`` not obeying name/version set by ``egg\_info`` command, if

the installation of any ``\_\_init\_\_.py`` files for namespace packages, and

adding a special ``.pth`` file to create a working package in ``sys.modules``.

- \* Made ``--single-version-externally-managed`` automatic when ``--root`` is used, so that most system packagers won't require special support for setuptools.
- \* Fixed ``setup\_requires``, ``tests\_require``, etc. not using ``setup.cfg`` or other configuration files for their option defaults when installing, and also made the install use ``--multi-version`` mode so that the project directory doesn't need to support .pth files.
- \* ``MANIFEST.in`` is now forcibly closed when any errors occur while reading it. Previously, the file could be left open and the actual error would be masked by problems trying to remove the open file on Windows systems.

\* Fixed the ``develop`` command ignoring ``--find-links``.

---0.6a9

- \* The ``sdist`` command no longer uses the traditional ``MANIFEST`` file to create source distributions. ``MANIFEST.in`` is still read and processed, as are the standard defaults and pruning. But the manifest is built inside the project's ``.egg-info`` directory as ``SOURCES.txt``, and it is rebuilt every time the ``egg\_info`` command is run.
- \* Added the ``include\_package\_data`` keyword to ``setup()``, allowing you to automatically include any package data listed in revision control or ``MANIFEST.in``
- \* Added the ``exclude\_package\_data`` keyword to ``setup()``, allowing you to trim back files included via the ``package\_data`` and ``include\_package\_data`` options.
- \* Fixed ``--tag-svn-revision`` not working when run from a source distribution.
- \* Added warning for namespace packages with missing ``declare\_namespace()``
- \* Added ``tests\_require`` keyword to ``setup()``, so that e.g. packages

requiring "nose" to run unit tests can make this dependency optional unless the "test" command is run.

- \* Made all commands that use ``easy\_install`` respect its configuration options, as this was causing some problems with ``setup.py install``.
- \* Added an ``unpack\_directory()`` driver to ``setuptools.archive\_util``, so that you can process a directory tree through a processing filter as if it were a zipfile or tarfile.
- \* Added an internal ``install\_egg\_info`` command to use as part of old-style ``install`` operations, that installs an ``.egg-info`` directory with the package.
- \* Added a ``--single-version-externally-managed`` option to the ``install``
  command so that you can more easily wrap a "flat" egg in a system package.
- \* Enhanced ``bdist\_rpm`` so that it installs single-version eggs that don't rely on a ``.pth`` file. The ``--no-egg`` option has been removed, since all RPMs are now built in a more backwards-compatible format.
- \* Support full roundtrip translation of eggs to and from ``bdist\_wininst`` format. Running ``bdist\_wininst`` on a setuptools-based package wraps the egg in an .exe that will safely install it as an egg (i.e., with metadata and entry-point wrapper scripts), and ``easy\_install`` can turn the .exe back into an ``.egg`` file or directory and install it as such.

-----0.6a8

----

- \* Fixed some problems building extensions when Pyrex was installed, especially with Python 2.4 and/or packages using SWIG.
- \* Made ``develop`` command accept all the same options as ``easy\_install``, and use the ``easy\_install`` command's configuration settings as defaults.
- \* Made ``egg\_info --tag-svn-revision``
  fall back to extracting the revision
  number from ``PKG-INFO`` in case it is being run on a source distribution of
  a snapshot taken from a Subversion-based project.
- \* Automatically detect ``.dll``, ``.so`` and ``.dylib`` files that are being installed as data, adding them to ``native\_libs.txt`` automatically.
- \* Fixed some problems with fresh checkouts of projects that don't include

| ".egg-info/PKG-INFO" under revision control and put the project's source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| code directly in the project directory. If such a package had any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| requirements that get processed before the "egg_info" command can be run,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| the setup scripts would fail with a "Missing 'Version:' header and/or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| PKG-INFO file" error, because the egg runtime interpreted the unbuilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| metadata in a directory on ``sys.path`` (i.e. the current directory) as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| being a corrupted egg. Setuptools now monkeypatches the distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| metadata cache to pretend that the egg has valid version information,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| until                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| it has a chance to make it actually be so (via the ``egg_info`` command).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 0.6a5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| * Fixed missing gui/cli .exe files in distribution. Fixed bugs in tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Thed impoint guren total meaning in the outpoint total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
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| 0.6a3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| * Added ``gui_scripts`` entry point group to allow installing GUI scripts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| on Windows and other platforms. (The special handling is only for Windows;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| on Windows and other platforms. (The special handling is only for Windows; other platforms are treated the same as for ``console_scripts``.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| other platforms are treated the same as for ``console_scripts``.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| other platforms are treated the same as for ``console_scripts``.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| other platforms are treated the same as for ``console_scripts``.) 0.6a2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| other platforms are treated the same as for ``console_scripts``.)   0.6a2  * Added ``console_scripts`` entry point group to allow installing scripts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| other platforms are treated the same as for ``console_scripts``.)  0.6a2 * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| other platforms are treated the same as for ``console_scripts``.)   0.6a2  * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an ``.exe`` wrapper so you can just type their name. On other                                                                                                                                                                                                                                                                                                                                             |  |
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| * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an ``.exe`` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.                                                                                                                                                                                                                                                                                                                                                           |  |
| * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an ``.exe`` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.  * Added support for building "old-style" RPMs that don't install an egg for                                                                                                                                                                                                                                                                              |  |
| * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an ``.exe`` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.                                                                                                                                                                                                                                                                                                                                                           |  |
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| * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an ``.exe`` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.  * Added support for building "old-style" RPMs that don't install an egg for the target package, using a ``no-egg`` option.  * The ``build_ext`` command now works better when using the ``inplace``                                                                                                                                                      |  |
| * Added ``console_scripts`` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an ``.exe`` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.  * Added support for building "old-style" RPMs that don't install an egg for the target package, using a ``no-egg`` option.                                                                                                                                                                                                                               |  |
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eggs, as PyPI now supports egg uploads without trickery.

- \* The ``ez\_setup`` script/module now displays a warning before downloading the setuptools egg, and attempts to check the downloaded egg against an internal MD5 checksum table.
- \* Fixed the ``--tag-svn-revision`` option of ``egg\_info`` not finding the latest revision number; it was using the revision number of the directory containing ``setup.py``, not the highest revision number in the project.
- \* Added ``eager\_resources`` setup argument
- \* The ``sdist`` command now recognizes Subversion "deleted file" entries and does not include them in source distributions.
- \* ``setuptools`` now embeds itself more thoroughly into the distutils, so that other distutils extensions (e.g. py2exe, py2app) will subclass setuptools' versions of things, rather than the native distutils ones.
- \* Added ``entry\_points`` and ``setup\_requires`` arguments to ``setup()``;
   ``setup\_requires`` allows you to automatically find and download packages
   that are needed in order to \*build\* your project (as opposed to running it).
- \* ``setuptools`` now finds its commands, ``setup()`` argument validators, and metadata writers using entry points, so that they can be extended by third-party packages. See `Creating distutils Extensions <a href="http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions">http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions>\_ for more details.
- \* The vestigial ``depends`` command has been removed. It was never finished or documented, and never would have worked without EasyInstall which it pre-dated and was never compatible with.

-----0.5a12

\* The zip-safety scanner now checks for modules that might be used with ``python -m``, and marks them as unsafe for zipping, since Python 2.4 can't

handle ``-m`` on zipped modules.

-----0.5a11

\* Fix breakage of the "develop" command that was caused by the addition of

```
``--always-unzip`` to the ``easy_install`` command.
0.5a9
* Include ``svn:externals`` directories in source distributions as well as
 normal subversion-controlled files and directories.
* Added ``exclude=patternlist`` option to ``setuptools.find packages()``
* Changed --tag-svn-revision to include an "r" in front of the revision number
 for better readability.
* Added ability to build eggs without including source files (except for any
 scripts, of course), using the ``--exclude-source-files`` option to
 "bdist_egg".
* ``setup.py install`` now automatically detects when an "unmanaged" package
 or module is going to be on "sys.path" ahead of a package being installed,
 thereby preventing the newer version from being imported. If this occurs,
 a warning message is output to "sys.stderr",
but installation proceeds
 anyway. The warning message informs the user what files or directories
 need deleting, and advises them they can also use EasyInstall (with the
 ``--delete-conflicting`` option) to do it automatically.
* The ``egg_info`` command now adds a ``top_level.txt`` file to the metadata
 directory that lists all top-level modules and packages in the distribution.
 This is used by the "easy_install" command to find possibly-conflicting
 "unmanaged" packages when installing the distribution.
* Added ``zip_safe`` and ``namespace_packages`` arguments to ``setup()``.
 Added package analysis to determine zip-safety if the "zip safe" flag
 is not given, and advise the author regarding what code might need changing.
* Fixed the swapped ``-d`` and ``-b`` options of ``bdist egg``.
0.5a8
* The "egg_info" command now always sets the distribution metadata to "safe"
 forms of the distribution name and version, so that distribution files
 be generated with parseable names (i.e., ones that don't include '-' in the
```

name or version). Also, this means that if you use the various ``--tag`` options of "egg\_info", any distributions generated will use the tags in the

version, not just egg distributions.

- \* Added support for defining command aliases in distutils configuration files, under the "[aliases]" section. To prevent recursion and to allow aliases to call the command of the same name, a given alias can be expanded only once per command-line invocation. You can define new aliases with the "alias" command, either for the local, global, or per-user configuration.
- \* Added "rotate" command to delete old distribution files, given a set of patterns to match and the number of files to keep. (Keeps the most recently-modified distribution files matching each pattern.)
- \* Added "saveopts" command that saves all command-line options for the current invocation to the local, global, or per-user configuration file. Useful for setting defaults without having to hand-edit a configuration file.
- \* Added a "setopt" command that sets a single option in a specified distutils configuration file.

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0.5a7

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\* Added "upload" support for egg and source distributions, including a bug fix for "upload" and a temporary workaround for lack of .egg support in PyPI.

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0.5a6

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- \* Beefed up the "sdist" command so that if you don't have a MANIFEST.in, it will include all files under revision control (CVS or Subversion) in the current directory, and it will regenerate the list every time you create a source distribution, not just when you tell it to. This should make the default "do what you mean" more often than the distutils' default behavior did, while still retaining the old behavior in the presence of MANIFEST.in.
- \* Fixed the "develop" command always updating .pth files, even if you specified ``-n`` or ``--dry-run``.
- \* Slightly changed

the format of the generated version when you use

``--tag-build`` on the "egg\_info" command, so that you can make tagged revisions compare \*lower\* than the version specified in setup.py (e.g. by using ``--tag-build=dev``).

0.5a5

----

- \* Added ``develop`` command to ``setuptools``-based packages. This command installs an ``.egg-link`` pointing to the package's source directory, and script wrappers that ``execfile()`` the source versions of the package's scripts. This lets you put your development checkout(s) on sys.path without having to actually install them. (To uninstall the link, use use ``setup.py develop --uninstall``.)
- \* Added ``egg\_info`` command to ``setuptools``-based packages. This command just creates or updates the "projectname.egg-info" directory, without building an egg. (It's used by the ``bdist\_egg``, ``test``, and ``develop`` commands.)
- \* Enhanced the ``test`` command so that it doesn't install the package, but instead builds any C extensions in-place, updates the ``.egg-info`` metadata, adds the source directory to ``sys.path``, and runs the tests directly on the source. This avoids an "unmanaged" installation of the package to ``site-packages`` or elsewhere.
- \* Made ``easy\_install`` a standard ``setuptools`` command, moving it from the ``easy\_install`` module to ``setuptools.command.easy\_install``. Note that if you were importing or extending it, you must now change your imports accordingly. ``easy\_install.py`` is still installed as a script, but not as a module.

----0.5a4

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\* Setup scripts using setuptools can now list their dependencies directly in the setup.py file, without having to manually create a ``depends.txt`` file. The ``install\_requires`` and ``extras\_require`` arguments to ``setup()`` are used to create a dependencies file automatically. If you are manually creating ``depends.txt`` right now, please switch to using these setup

arguments as soon as practical, because ``depends.txt`` support will be removed in the 0.6 release cycle. For documentation on the new arguments, see the ``setuptools.dist.Distribution`` class.

\* Setup scripts using setuptools now always install using ``easy\_install`` internally, for ease of uninstallation and upgrading.

----

0.5a1

----

\* Added support for "self-installation" bootstrapping. Packages can now include ``ez\_setup.py`` in their source distribution, and add the following to their ``setup.py``, in order to automatically bootstrap installation of setuptools as part of their setup process::

from ez\_setup import use\_setuptools
use\_setuptools()

from setuptools import setup
# etc...

---0.4a2

- \* Added ``ez\_setup.py`` installer/bootstrap script to make initial setuptools installation easier, and to allow distributions using setuptools to avoid having to include setuptools in their source distribution.
- \* All downloads are now managed by the ``PackageIndex`` class (which is now subclassable and replaceable), so that embedders can more easily override download logic, give download progress reports, etc. The class has also been moved to the new ``setuptools.package\_index`` module.
- \* The ``Installer`` class no longer handles downloading, manages a temporary directory, or tracks the ``zip\_ok`` option. Downloading is now handled by ``PackageIndex``, and ``Installer`` has become an ``easy\_install`` command class based on ``setuptools.Command``.
- \* There is a new ``setuptools.sandbox.run\_setup()`` API to invoke a setup script in a directory sandbox, and a new ``setuptools.archive\_util`` module with an ``unpack\_archive()`` API. These were split out of EasyInstall to allow reuse by other tools and applications.
- \*``setuptools.Command`` now supports reinitializing commands using keyword arguments to set/reset options. Also, ``Command`` subclasses can now set their ``command\_consumes\_arguments`` attribute to ``True`` in order to receive an ``args`` option containing the rest of the command line.

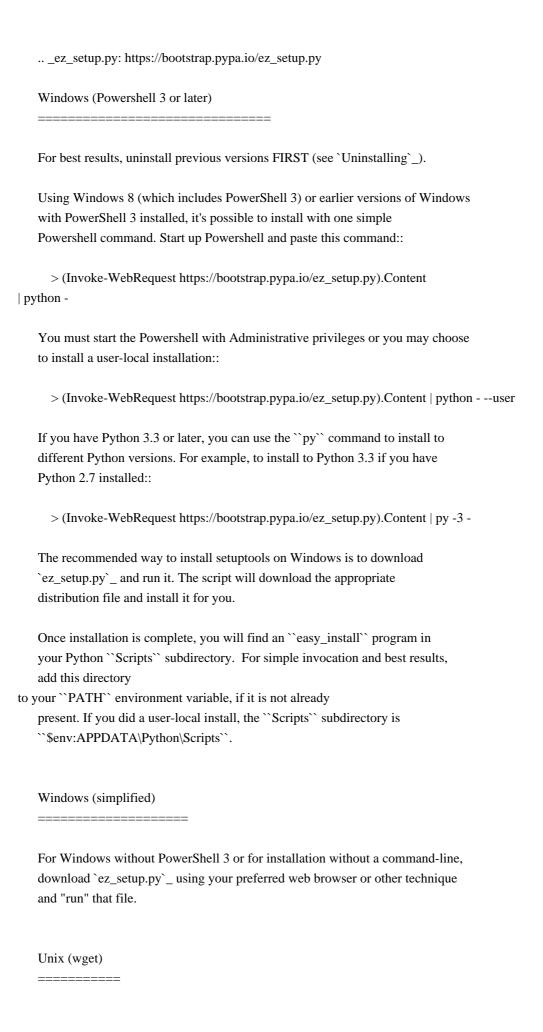
----0.3a2

\* Added new options to ``bdist\_egg`` to allow tagging the egg's version number with a subversion revision number, the current date, or an explicit tag

value. Run ``setup.py bdist\_egg --help`` to get more information. \* Misc. bug fixes 0.3a1\* Initial release. Found in path(s): \*/opt/cola/permits/1826612424\_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/CHANGES.txt No license file was found, but licenses were detected in source scan. Metadata-Version: 1.1 Name: setuptools Version: 12.0.5 Summary: Easily download, build, install, upgrade, and uninstall Python packages Home-page: https://bitbucket.org/pypa/setuptools Author: Python Packaging Authority Author-email: distutils-sig@python.org License: PSF or ZPL Description: ====== **Installing and Using Setuptools** .. contents:: \*\*Table of Contents\*\* `Change History <a href="https://pythonhosted.org/setuptools/history.html">https://pythonhosted.org/setuptools/history.html</a>.\_. **Installation Instructions** \_\_\_\_\_ The recommended way to bootstrap setuptools on any system is to download `ez\_setup.py`\_ and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this routine, so below are some examples to get you started. Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x <a href="https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez\_setup.py">\cdot\_.</a> etup.py>\\_.

latest known stable release.

The link provided to ez\_setup.py is a bookmark to bootstrap script for the



Most Linux distributions come with wget.

Download `ez\_setup.py`\_ and run it using the target Python version. The script will download the appropriate version and install it for you::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you will may need to invoke the command with superuser privileges to install to the system Python::

```
> wget https://bootstrap.pypa.io/ez_setup.py
-O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations),

`wget` may refuse to download `ez\_setup.py`, complaining that the certificate common name `\*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez\_setup.py` script may then encounter similar problems using

`wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the

host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <a href="https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915">https://bitbucket.org/pypa/pypi/issue/59#comment-5881915</a>

install Setuptools as follows::

```
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

\_\_\_\_\_

If your system has curl installed, follow the ``wget`` instructions but replace ``wget`` with ``curl`` and ``-O`` with ``-o``. For example::

> curl https://bootstrap.pypa.io/ez\_setup.py -o - | python

#### Advanced Installation

\_\_\_\_\_

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <a href="https://pypi.python.org/pypi/setuptools">https://pypi.python.org/pypi/setuptools</a>>`\_

and run setup.py with any supported distutils and Setuptools options. For example::

setuptools-x.x\$ python setup.py install --prefix=/opt/setuptools

Use ``--help``

to get a full options list, but we recommend consulting

the `EasyInstall manual`\_ for detailed instructions, especially `the section on custom installation locations`\_.

- .. \_EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
- $... \underline{\ } the \ section \ on \ custom \ installation \ locations: \ https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations$

#### Downloads

\_\_\_\_\_

All setuptools downloads can be found at `the project's home page in the Python Package Index`\_. Scroll to the very bottom of the page to find the links.

.. \_the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Bitbucket repo`\_, and in-development versions of the `0.6 branch`\_ are available as well.

••

\_Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev

.. \_0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

#### Uninstalling

========

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi`` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all ``setuptools\*`` and ``distribute\*`` files and directories from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy\_install' and 'easy\_install-x.x' scripts and associated executables installed to the Python scripts directory.

Using Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- \* `The EasyInstall user's guide and reference manual`\_
- \* `The setuptools Developer's Guide`\_
- \* `The pkg resources API reference`
- \* `The Internal Structure of Python Eggs`\_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`\_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working,

\*tested\* patches to correct problems or add features, you may submit them to

the `setuptools bug tracker`\_.

- .. \_setuptools bug tracker: https://bitbucket.org/pypa/setuptools/issues
- .. \_The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
- .. \_The setuptools Developer's Guide: https://pythonhosted.org/setuptools/setuptools.html
- ..\_The pkg\_resources API reference: https://pythonhosted.org/setuptools/pkg\_resources.html
- ..\_The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy\_install.html
- .. \_distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits

-----

\* The original design for the ``.egg`` format and the ``pkg\_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg\_resources``, and supplied the OS X operating system version compatibility

algorithm.

- \* Ian Bicking implemented many early "creature comfort" features of easy\_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.
- \* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

- \* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.
- \* Significant parts of the implementation of setuptools were funded by the Open

Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

- \* Tarek Ziadé is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.
- \* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. files:

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier:

License :: OSI Approved :: Python Software Foundation License

Classifier: License :: OSI Approved :: Zope Public License

Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.1
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: System :: Archiving :: Packaging Classifier: Topic :: System :: Systems Administration

Classifier: Topic :: Utilities

#### Found in path(s):

- $*/opt/cola/permits/1826612424\_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/setuptools.egg-info/PKG-INFO$
- \* /opt/cola/permits/1826612424\_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/PKG-INFO No license file was found, but licenses were detected in source scan.

License :: OSI Approved :: Zope Public License

Found in path(s):

\*/opt/cola/permits/1826612424\_1697778773.660438/0/setuptools-12-0-5-1-tar-gz/setuptools-12.0.5/setup.py

## 1.81 traceroute 2.0.21

### 1.81.1 Available under license:

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a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever

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#### The

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@end smallexample

If you have Invariant

Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

LICENSING

=======

The libtasn1 library is released under the GNU Lesser General Public License (LGPL) version 2.1 or later; see [COPYING.LESSER](doc/COPYING.LESSER) for the license terms.

The GNU LGPL applies to the main libtasn1 library, while the included applications library are under the GNU GPL version 3. The libtasn1 library is located in the lib directory, while the applications in src/.

The documentation in doc/ is under the GNU FDL license 1.3.

For any copyright year range specified as YYYY-ZZZZ in this package note that the range specifies every single year in that closed interval.

# 1.83 gawk 4.1.3

# 1.83.1 Available under license:

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

# Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

# Because

of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference

between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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  - c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free

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\* /opt/cola/permits/1887779981\_1705584575.6594367/0/isc-dhcp-leases-0-9-1-tar-gz/isc\_dhcp\_leases-

0.9.1/setup.py

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Metadata-Version: 1.1 Name: isc\_dhcp\_leases

Version: 0.9.1

Summary: Small python module for reading /var/lib/dhcp/dhcpd.leases from isc-dhcp-server

Home-page: https://github.com/MartijnBraam/python-isc-dhcp-leases

Author: Martijn Braam

Author-email: martijn@brixit.nl

License: MIT

Description: UNKNOWN
Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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Classifier: Programming Language :: Python :: 2 Classifier: Programming Language :: Python :: 2.7 Classifier: Programming Language :: Python :: 3 Classifier: Programming Language :: Python :: 3.3 Classifier: Programming Language :: Python :: 3.4 Classifier: Programming Language :: Python :: 3.5

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 $*/opt/cola/permits/1887779981\_1705584575.6594367/0/isc-dhcp-leases-0-9-1-tar-gz/isc\_dhcp\_leases-0.9.1/PKG-INFO$ 

## 1.87 wireless-tools 1\_30.pre9

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

a) Accompany the work with the complete corresponding

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user

to use the modified definitions.)

installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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