



Open Source Used In Cisco Email Security Appliance AsyncOS 12.5.3

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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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* \$Revision: 1.2 \$

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* \$Header: /home/cvs/jakarta-regexp/LICENSE,v 1.3 2000/04/27 01:21:00 jon Exp \$

* \$Revision: 1.3 \$

* \$Date: 2000/04/27 01:21:00 \$

*

* =====

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1.9 sleepycat 4.4.20

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* $Id: //prod/main/third_party/sleepycat/LICENSE#2 $
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```

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1.11 compress-raw-bzip2 2.037

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1.12 bouncy-castle 1.34

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1.13 jzlib 1.0.7

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```
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```

```
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```

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```
*/
```

```
/*
```

```
* This program is based on zlib-1.1.3, so all credit should go authors
```

```
* Jean-loup Gailly(jloup@gzip.org) and Mark Adler(madler@alumni.caltech.edu)
```

```
* and contributors of zlib.
```

```
*/
```

```
package com.jcraft.jzlib;
```

```
final class Adler32{
```

```
// largest prime smaller than 65536
```

```

static final private int BASE=65521;
// NMAX is the largest n such that 255n(n+1)/2 + (n+1)(BASE-1) <= 2^32-1
static final private int NMAX=5552;

long Adler32(long Adler, byte[] buf, int index, int len){
    if(buf == null){ return 1L; }

    long s1=Adler&0xffff;
    long s2=(Adler>>16)&0xffff;
    int k;

    while(len > 0) {
        k=len<NMAX?len:NMAX;
        len-=k;
        while(k>=16){
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            k-=16;
        }
        if(k!=0){
            do{
                s1+=buf[index++]&0xff; s2+=s1;
            }
            while(--k!=0);
        }
        s1%=BASE;
        s2%=BASE;
    }
    return (s2<<16)|s1;
}

/*
private java.util.zip.Adler32 Adler=new java.util.zip.Adler32();
long Adler32(long value, byte[] buf, int index, int len){

```

```
if(value==1) {adler.reset();}
if(buf==null) {adler.reset();}
else{adler.update(buf, index, len);}
return Adler.getValue();
}
*/
}
```

1.14 dcc 1.2.58

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1.15 fpconst 0.7.2

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```
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Copyright (C) 19yy <name of author>
```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```


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It was downloaded from <http://ccache.samba.org/ftp/ccache/>

The ccache-zlib patch was downloaded from <http://www.gustaebel.de/lars/ccache/>

Upstream Author: Andrew Tridgell <tridge@samba.org>

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1.17 unbound 1.7.0

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1.18 codec 1.2

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1.19 open-ldap 2.3.27

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1.24 commons-beanutils 1.6.1

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1.25 boost 1.41

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1.26 ipmi-tool 1.8.9

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1.31 perl 5.8.9

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1.33 common-sense 3.4

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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1.35 velocity 1.5

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1.36 soappy 0.12.0

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SOAPPy - Simple to use SOAP library for Python

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1.37 pythonstix 1.2.0.4

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```
:mod:`stix.incident.contributors` Module
```

```
=====
```

```
.. module:: stix.incident.contributors
```

```
Classes
```

```
-----
```

```
.. autoclass:: Contributors
```

```
:show-inheritance:
```

```
:members:
```

```
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```
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```

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external

from cybox.common import Contributor

internal

import stix

import stix.utils

import stix.bindings.incident as incident_binding

from mixbox import fields, entities

class Contributors(stix.EntityList):

 _namespace = "http://stix.mitre.org/Incident-1"

 _binding = incident_binding

 _binding_class = _binding.ContributorsType

 contributors = fields.TypedField("Contributor", Contributor, multiple=True, key_name="contributors")

1.38 openssl 1.0.2k 1

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1.39 lucene-core 6.2.1

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1.40 java-getopt 1.0.9

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Version 2, June 1991

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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.41 openssl-patch 1.0

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This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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```
/* crypto/aes/aes_wrap.c */
```

```
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL  
* project.
```

```
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
```

```
* size keys (Implemented RFC5649)
```

*/
/* =====
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1.42 sha-1 0.1

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1.43 libarchive 3.1.2

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1.44 pyxml 0.8.2

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schema/trex.py

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test/domapi/ (and test/test_pyxmldom.py)

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1.45 freebsd-kernel 9.2

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LZ4 - Fast LZ compression algorithm

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- LZ4 homepage : <http://fastcompression.blogspot.com/p/lz4.html>
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*/

```
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typedef uint16_t word;
typedef uint32_t dword;
typedef uint64_t qword;
```

```
typedef struct SMBiosTableEntry {
    byte anchorString[4];
    byte checksum;
    byte length;
    byte majorVersion;
    byte minorVersion;
    word maximumStructureSize;
    byte entryPointRevision;
    byte formattedArea[5];
    byte DMIAncorString[5];
    byte intermediateChecksum;
    word structureTableLength;
    dword structureTableAddress;
    word numberStructures;
    byte BCDRevision;
} SMBiosTableEntry;
```

```
typedef struct StructureHeader {
```

```
byte type;  
byte length;  
word handle;  
} StructureHeader;
```

```
typedef struct BiosInformation {  
    byte type;  
    byte length;  
    word handle;  
    byte vendor;  
    byte biosVersion;  
    word biosStartingAddressSegment;  
    byte biosReleaseDate;  
    byte biosROMSize;  
    qword biosCharacteristics;  
    byte biosCharacteristicsExtension;  
} BiosInformation;
```

```
typedef struct SystemInformation {  
    byte type;  
    byte length;  
    word handle;  
    byte manufacturer;  
    byte productName;  
    byte version;  
    byte serialNumber;  
    byte uuid[16];  
    byte wakeupType;  
} SystemInformation;
```

```
typedef struct SystemEnclosure {  
    byte type;  
    byte length;  
    word handle;  
    byte manufacturer;  
    byte enclosureType;  
    byte version;  
    byte serialNumber;  
    byte assetTag;  
    byte bootupState;  
    byte powerSupplyState;  
    byte thermalState;  
    byte securityStatus;  
    dword oem;  
} SystemEnclosure;
```

```
typedef struct ProcessorInformation {  
    byte type;
```

```

byte length;
word handle;
byte socketDesignation;
byte processorType;
byte processorFamily;
byte processorManufacturer;
qword processorID;
byte processorVersion;
byte voltage;
word externalClock;
word maxSpeed;
word currentSpeed;
byte status;
byte processorUpgrade;
word l1CacheHandle;
word l2CacheHandle;
word l3CacheHandle;
byte serialNumber;
byte assetTag;
} ProcessorInformation;

typedef struct CacheInformation {
    byte type;
    byte length;
    word handle;
    byte socketDesignation;
    word cacheConfiguration;
    word maxCacheSize;
    word installedSize;
    word supportedSRAMSize;
    word currentSRAMSize;
    byte cacheSpeed;
    byte errorCorrectionType;
    byte systemCacheType;
    byte associativity;
} __attribute__((packed)) CacheInformation;

typedef struct PortConnectorInformation {
    byte type;
    byte length;
    word handle;
    byte internalReference;
    byte internalType;
    byte externalReference;
    byte externalType;
    byte portType;
} PortConnectorInformation;

```



```
typedef struct SystemSlots {
    byte type;
    byte length;
    word handle;
    byte slotDesignation;
    byte slotType;
    byte slotDataBusWidth;
    byte currentUsage;
    byte slotLength;
    word slotID;
    byte slotCharacteristics1;
    byte slotCharacteristics2;
} SystemSlots;
```

```
typedef struct OEMStrings {
    byte type;
    byte length;
    word handle;
    byte count;
} OEMStrings;
```

```
typedef struct SystemConfigurationOptions {
    byte type;
    byte length;
    word handle;
    byte count;
} SystemConfigurationOptions;
```

```
typedef struct BIOSLanguageInformation {
    byte type;
    byte length;
    word handle;
    byte installableLanguages;
    byte flags;
    byte reserved[15];
    byte currentLanguage;
} BIOSLanguageInformation;
```

```
typedef struct PhysicalMemoryArray {
    byte type;
    byte length;
    word handle;
    byte location;
    byte use;
    byte memoryErrorCorrections;
    dword maximumCapacity;
    word memoryErrorHandle;
    word numberMemoryDevices;
```

```
} PhysicalMemoryArray;

typedef struct MemoryDevice {
    byte type;
    byte length;
    word handle;
    word memoryArrayHandle;
    word memoryErrorHandle;
    word totalWidth;
    word dataWidth;
    word size;
    byte formFactor;
    byte deviceSet;
    byte deviceLocator;
    byte bankLocator;
    byte memoryType;
    word typeDetail;
    word speed;
    byte manufacturer;
    byte serialNumber;
    byte assetTag;
    byte partNumber;
} __attribute__((packed)) MemoryDevice;
```

```
typedef struct IPMIDevice {
    byte type;
    byte length;
    word handle;
    byte interfaceType;
    byte specRevision;
    byte i2cSlaveAddress;
    byte NVStorageDeviceAddress;
    qword baseAddress;
    byte baseAddressModifier;
    byte interruptNumber;
} IPMIDevice;
```

```
typedef struct GetIPMIinfo {
    int kcs_mode;
    int smic_mode;
    qword address;
    int offset;
    int io_mode;
} GetIPMIinfo;
```

```
typedef struct IndexedIO {
    byte type;
    byte length;
```

```

    word handle;
    word index;
    word data;
    int reserved;
    byte startToken;
} IndexedIO;

typedef struct Token {
    word id;
    byte location;
    byte maskAnd;
    byte maskOr;
} __attribute__((packed)) Token;

#define TOKEN_NOOP 0x0000
#define TOKEN_REMOTE_BIOS_ENABLE 0x005c
#define TOKEN_REMOTE_BIOS_DISABLE 0x005d

typedef struct RemoteBIOSUpdate {
    byte type;
    byte length;
    word handle;
    word size;
    word completionCode;
    byte year;
    byte month;
    byte day;
    byte hour;
    byte minute;
} RemoteBIOSUpdate;

typedef struct RemoteBIOSStatus {
    char minVersion[4];
    char version[4];
    char vendor[1024];
    char manufacturer[1024];
    word systemid;
    byte enable;
    byte disable;
    word size;
    word completionCode;
    byte year;
    byte month;
    byte day;
    byte hour;
    byte minute;
} RemoteBIOSStatus;

```

```

extern void Unknownproc(byte *p, char **table);
extern void t0proc(byte *p, char **table);
extern void t0procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t1proc(byte *p, char **table);
extern void t1procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t3proc(byte *p, char **table);
extern void t4proc(byte *p, char **table);
extern void t7proc(byte *p, char **table);
extern void t8proc(byte *p, char **table);
extern void t9proc(byte *p, char **table);
extern void t10proc(byte *p, char **table);
extern void t11proc(byte *p, char **table);
extern void t11procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t12proc(byte *p, char **table);
extern void t13proc(byte *p, char **table);
extern void t16proc(byte *p, char **table);
extern void t17proc(byte *p, char **table);
extern void t18proc(byte *p, char **table);
extern void t19proc(byte *p, char **table);
extern void t20proc(byte *p, char **table);
extern void t38proc(byte *p, char **table);
extern void t38procInfo(byte *p, char **table, GetIPMIinfo *info);
extern void t126proc(byte *p, char **table);
extern void t127proc(byte *p, char **table);
extern void t212proc(byte *p, char **table); /* D4 */
extern void t212procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t212procEnableBiosUpdate(byte *p, char **table,
    RemoteBIOSStatus *status);
extern void t222proc(byte *p, char **table); /* DE */
extern void t222procStatus(byte *p, char **table, RemoteBIOSStatus *status);

extern char *MapConnectorType(byte type);
extern char *MapPortType(byte type);
extern void VerboseDump(byte *p, char **table);
extern char *get_strings(char *p, char **table);
extern char *copy_string_trimmed(const char *s);
extern void init_table(void);
extern void dump_table(byte *p, int numentries);
extern void init_table_status(void);
extern void dump_table_status(byte *p, int numentries,
    RemoteBIOSStatus *status);
extern void init_table_update_bios(void);
extern void init_table_get_ipmi(void);
extern void set_verbose(int value);

```

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LZ4 COMPRESSION FUNCTIONALITY IN ZFS

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```
*****  
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```

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```

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I hate legalese, don't you ?

```
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```

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1.46 freebsd-kernel 10.1

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*/

```
typedef uint8_t byte;  
typedef uint16_t word;  
typedef uint32_t dword;  
typedef uint64_t qword;
```

```
typedef struct SMBiosTableEntry {  
    byte anchorString[4];  
    byte checksum;  
    byte length;  
    byte majorVersion;  
    byte minorVersion;  
    word maximumStructureSize;  
    byte entryPointRevision;  
    byte formattedArea[5];  
    byte DMIAncorString[5];  
    byte intermediateChecksum;  
    word structureTableLength;  
    dword structureTableAddress;  
    word numberStructures;  
    byte BCDRevision;  
} SMBiosTableEntry;
```

```
typedef struct StructureHeader {  
    byte type;  
    byte length;  
    word handle;  
} StructureHeader;
```

```
typedef struct BiosInformation {  
    byte type;  
    byte length;  
    word handle;  
    byte vendor;  
    byte biosVersion;  
    word biosStartingAddressSegment;  
    byte biosReleaseDate;
```

```
    byte biosROMSize;
    qword biosCharacteristics;
    byte biosCharacteristicsExtension;
} BiosInformation;
```

```
typedef struct SystemInformation {
    byte type;
    byte length;
    word handle;
    byte manufacturer;
    byte productName;
    byte version;
    byte serialNumber;
    byte uuid[16];
    byte wakeupType;
} SystemInformation;
```

```
typedef struct SystemEnclosure {
    byte type;
    byte length;
    word handle;
    byte manufacturer;
    byte enclosureType;
    byte version;
    byte serialNumber;
    byte assetTag;
    byte bootupState;
    byte powerSupplyState;
    byte thermalState;
    byte securityStatus;
    dword oem;
} SystemEnclosure;
```

```
typedef struct ProcessorInformation {
    byte type;
    byte length;
    word handle;
    byte socketDesignation;
    byte processorType;
    byte processorFamily;
    byte processorManufacturer;
    qword processorID;
    byte processorVersion;
    byte voltage;
    word externalClock;
    word maxSpeed;
    word currentSpeed;
    byte status;
```

```

byte processorUpgrade;
word l1CacheHandle;
word l2CacheHandle;
word l3CacheHandle;
byte serialNumber;
byte assetTag;
} ProcessorInformation;

typedef struct CacheInformation {
byte type;
byte length;
word handle;
byte socketDesignation;
word cacheConfiguration;
word maxCacheSize;
word installedSize;
word supportedSRAMSize;
word currentSRAMSize;
byte cacheSpeed;
byte errorCorrectionType;
byte systemCacheType;
byte associativity;
} __attribute__((packed)) CacheInformation;

typedef struct PortConnectorInformation {
byte type;
byte length;
word handle;
byte internalReference;
byte internalType;
byte externalReference;
byte externalType;
byte portType;
} PortConnectorInformation;

typedef struct SystemSlots {
byte type;
byte length;
word handle;
byte slotDesignation;
byte slotType;
byte slotDataBusWidth;
byte currentUsage;
byte slotLength;
word slotID;
byte slotCharacteristics1;
byte slotCharacteristics2;
} SystemSlots;

```

```

typedef struct OEMStrings {
    byte type;
    byte length;
    word handle;
    byte count;
} OEMStrings;

typedef struct SystemConfigurationOptions {
    byte type;
    byte length;
    word handle;
    byte count;
} SystemConfigurationOptions;

typedef struct BIOSLanguageInformation {
    byte type;
    byte length;
    word handle;
    byte installableLanguages;
    byte flags;
    byte reserved[15];
    byte currentLanguage;
} BIOSLanguageInformation;

typedef struct PhysicalMemoryArray {
    byte type;
    byte length;
    word handle;
    byte location;
    byte use;
    byte memoryErrorCorrections;
    dword maximumCapacity;
    word memoryErrorHandle;
    word numberMemoryDevices;
} PhysicalMemoryArray;

typedef struct MemoryDevice {
    byte type;
    byte length;
    word handle;
    word memoryArrayHandle;
    word memoryErrorHandle;
    word totalWidth;
    word dataWidth;
    word size;
    byte formFactor;
    byte deviceSet;
}

```

```
byte deviceLocator;
byte bankLocator;
byte memoryType;
word typeDetail;
word speed;
byte manufacturer;
byte serialNumber;
byte assetTag;
byte partNumber;
} __attribute__((packed)) MemoryDevice;
```

```
typedef struct IPMIDevice {
    byte type;
    byte length;
    word handle;
    byte interfaceType;
    byte specRevision;
    byte i2cSlaveAddress;
    byte NVStorageDeviceAddress;
    qword baseAddress;
    byte baseAddressModifier;
    byte interruptNumber;
} IPMIDevice;
```

```
typedef struct GetIPMIinfo {
    int kcs_mode;
    int smic_mode;
    qword address;
    int offset;
    int io_mode;
} GetIPMIinfo;
```

```
typedef struct IndexedIO {
    byte type;
    byte length;
    word handle;
    word index;
    word data;
    int reserved;
    byte startToken;
} IndexedIO;
```

```
typedef struct Token {
    word id;
    byte location;
    byte maskAnd;
    byte maskOr;
} __attribute__((packed)) Token;
```

```

#define TOKEN_NOOP 0x0000
#define TOKEN_REMOTE_BIOS_ENABLE 0x005c
#define TOKEN_REMOTE_BIOS_DISABLE 0x005d

typedef struct RemoteBIOSUpdate {
    byte type;
    byte length;
    word handle;
    word size;
    word completionCode;
    byte year;
    byte month;
    byte day;
    byte hour;
    byte minute;
} RemoteBIOSUpdate;

typedef struct RemoteBIOSStatus {
    char minVersion[4];
    char version[4];
    char vendor[1024];
    char manufacturer[1024];
    word systemid;
    byte enable;
    byte disable;
    word size;
    word completionCode;
    byte year;
    byte month;
    byte day;
    byte hour;
    byte minute;
} RemoteBIOSStatus;

extern void Unknownproc(byte *p, char **table);
extern void t0proc(byte *p, char **table);
extern void t0procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t1proc(byte *p, char **table);
extern void t1procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t3proc(byte *p, char **table);
extern void t4proc(byte *p, char **table);
extern void t7proc(byte *p, char **table);
extern void t8proc(byte *p, char **table);
extern void t9proc(byte *p, char **table);
extern void t10proc(byte *p, char **table);
extern void t11proc(byte *p, char **table);
extern void t11procStatus(byte *p, char **table, RemoteBIOSStatus *status);

```

```

extern void t12proc(byte *p, char **table);
extern void t13proc(byte *p, char **table);
extern void t16proc(byte *p, char **table);
extern void t17proc(byte *p, char **table);
extern void t18proc(byte *p, char **table);
extern void t19proc(byte *p, char **table);
extern void t20proc(byte *p, char **table);
extern void t38proc(byte *p, char **table);
extern void t38procInfo(byte *p, char **table, GetIPMIinfo *info);
extern void t126proc(byte *p, char **table);
extern void t127proc(byte *p, char **table);
extern void t212proc(byte *p, char **table); /* D4 */
extern void t212procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t212procEnableBiosUpdate(byte *p, char **table,
    RemoteBIOSStatus *status);
extern void t222proc(byte *p, char **table); /* DE */
extern void t222procStatus(byte *p, char **table, RemoteBIOSStatus *status);

extern char *MapConnectorType(byte type);
extern char *MapPortType(byte type);
extern void VerboseDump(byte *p, char **table);
extern char *get_strings(char *p, char **table);
extern char *copy_string_trimmed(const char *s);
extern void init_table(void);
extern void dump_table(byte *p, int numentries);
extern void init_table_status(void);
extern void dump_table_status(byte *p, int numentries,
    RemoteBIOSStatus *status);
extern void init_table_update_bios(void);
extern void init_table_get_ipmi(void);
extern void set_verbose(int value);

```

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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 from 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>

=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_sprintf.c:

```
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LZ4 - Fast LZ compression algorithm

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1.47 protobuf 2.2.0

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1.48 postgresql 7.4.2

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.50 **bsd-resource 1.2903**

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```
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```
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program `Gnomovision' (a program to direct compilers to make passes
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.51 sudo 1.7.4p4

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

That's all there is to it!
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1.61 python 2.6.4

1.61.1 Available under license :

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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.. _history-and-license:

History and License

History of the software

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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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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.com	no
1.6.1	1.6	2001	CNRI	no

2.1	2.0+1.6.1	2001	PSF	no	
2.0.1	2.0+1.6.1	2001	PSF	yes	
2.1.1	2.1+2.0.1	2001	PSF	yes	
2.2	2.1.1	2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	
2.1.3	2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes	
2.2.2	2.2.1	2002	PSF	yes	
2.2.3	2.2.2	2002-2003	PSF	yes	
2.3	2.2.2	2002-2003	PSF	yes	
2.3.1	2.3	2002-2003	PSF	yes	
2.3.2	2.3.1	2003	PSF	yes	
2.3.3	2.3.2	2003	PSF	yes	
2.3.4	2.3.3	2004	PSF	yes	
2.3.5	2.3.4	2005	PSF	yes	
2.4	2.3	2004	PSF	yes	
2.4.1	2.4	2005	PSF	yes	
2.4.2	2.4.1	2005	PSF	yes	
2.4.3	2.4.2	2006	PSF	yes	
2.4.4	2.4.3	2006	PSF	yes	
2.5	2.4	2006	PSF	yes	
2.5.1	2.5	2007	PSF	yes	
2.5.2	2.5.1	2008	PSF	yes	
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Mersenne Twister

The `:mod:'_random'` module includes code based on a download from <http://www.math.keio.ac.jp/matsumoto/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

Sockets

The `:mod:'socket'` module uses the functions, `:func:'getaddrinfo'`, and `:func:'getnameinfo'`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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```

MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:'asynchat' and :mod:'asyncore' modules contain the following notice::

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C

- version is still 5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls

The :mod:'xmlrpc.lib' module contains the following notice::

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Select kqueue

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```

```
""
```

Additional handlers for the logging package for Python. The core package is based on PEP 282 and comments thereto in `comp.lang.python`, and influenced by Apache's `log4j` system.

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```
/* parsermodule.c
```

```
*
```

```
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```

```
*
```

```
* This module serves to replace the original parser module written
* by Guido. The functionality is not matched precisely, but the
* original may be implemented on top of this. This is desirable
* since the source of the text to be parsed is now divorced from
* this interface.
```

```
*
```

```
* Unlike the prior interface, the ability to give a parse tree
* produced by Python code as a tuple to the compiler is enabled by
* this module. See the documentation for more details.
```

```
*
```

```
* I've added some annotations that help with the lint code-checking
* program, but they're not complete by a long shot. The real errors
* that lint detects are gone, but there are still warnings with
* Py_[X]DECREF() and Py_[X]INCREf() macros. The lint annotations
* look like "NOTE(...)".
```

```
*/
```

A. HISTORY OF THE SOFTWARE

```
=====
```

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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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
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2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
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2.3.5	2.3.4	2005	PSF	yes
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2.4.2	2.4.1	2005	PSF	yes

2.4.3	2.4.2	2006	PSF	yes
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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

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3. Are derivative works allowed?

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4. Can I change or add to the font(s)?

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5. Under what terms are derivative works allowed?

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

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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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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.

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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.

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1.63 simplejson 2.0.9

1.63.1 Available under license :

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1.64 python-levenshtein 0.12.0

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.65 par-packer 1.008

1.65.1 Available under license :

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Version 1, February 1989

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b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

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b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
The "Artistic License"

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The End

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1.66 tinysl 1.03

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```

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```

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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.

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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.

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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 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:

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) 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.

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.

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1.71 unrar 4.0.7

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