



# Open Source Used In AsyncOS 12.0 for Cisco Email Security Appliances

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## Contents

### **1.1 AnyEvent 5.34**

1.1.1 Available under license

### **1.2 Apache Commons Lang 2.0**

1.2.1 Notifications

1.2.2 Available under license

### **1.3 Apache Commons: Logging 1.0.3**

1.3.1 Notifications

1.3.2 Available under license

### **1.4 Aquarium 2.2.1**

1.4.1 Available under license

### **1.5 Archive::Zip 1.30**

1.5.1 Available under license

### **1.6 B::Deobfuscate 0.20**

1.6.1 Available under license

### **1.7 B::Deobfuscate 0.10**

1.7.1 Available under license

### **1.8 B::Keywords 0.06**

1.8.1 Available under license

### **1.9 B::Keywords 1.10**

1.9.1 Available under license

### **1.10 BerkeleyDB-perl 0.49**

1.10.1 Available under license

### **1.11 Boost 1.41**

1.11.1 Available under license

### **1.12 Bouncy Castle 1.34**

1.12.1 Available under license

- 1.13 BSD::Resource 1.2904**
  - 1.13.1 Available under license
- 1.14 BSD::Resource 1.2903**
  - 1.14.1 Available under license
- 1.15 cabby 0.1.20**
  - 1.15.1 Available under license
- 1.16 cheetah 1**
  - 1.16.1 Available under license
- 1.17 ClamAV/gplv2-portions 0.99.2**
  - 1.17.1 Available under license
- 1.18 Codec 1.2**
  - 1.18.1 Notifications
  - 1.18.2 Available under license
- 1.19 common::sense 3.4**
  - 1.19.1 Available under license
- 1.20 Commons Collections 3.2.1**
  - 1.20.1 Available under license
- 1.21 commons-beanutils (DUPLICATE) 1.6.1**
  - 1.21.1 Available under license
- 1.22 Compress::Raw::Bzip2 2.037**
  - 1.22.1 Available under license
- 1.23 Convert::Bencode\_XS 1.03**
  - 1.23.1 Available under license
- 1.24 dcc 1.2.58**
  - 1.24.1 Available under license
- 1.25 fpconst 0.7.2**
  - 1.25.1 Available under license
- 1.26 FreeBSD Kernel 9.2**
  - 1.26.1 Notifications
  - 1.26.2 Available under license
- 1.27 FreeBSD Kernel 10.1**
  - 1.27.1 Available under license
- 1.28 FreeBSD Kernel/cddl-portions 9.2**
  - 1.28.1 Available under license
- 1.29 fuzzywuzzy 0.10.0**
  - 1.29.1 Available under license
- 1.30 HttpClient 3.0.1**
  - 1.30.1 Available under license
- 1.31 IPMItool 1.8.9**

- 1.31.1 Available under license
- 1.32 jansson 2.5**
  - 1.32.1 Available under license
- 1.33 java-getopt 1.0.9**
  - 1.33.1 Available under license
- 1.34 json-c 0.9**
  - 1.34.1 Available under license
- 1.35 jzlib 1.0.7**
  - 1.35.1 Available under license
- 1.36 langdetect 1.0.5**
  - 1.36.1 Available under license
- 1.37 libarchive 3.1.2**
  - 1.37.1 Available under license
- 1.38 libev 4.03**
  - 1.38.1 Available under license
- 1.39 Log4j 1.2.6**
  - 1.39.1 Notifications
  - 1.39.2 Available under license
- 1.40 Isof 4.71**
  - 1.40.1 Notifications
  - 1.40.2 Available under license
- 1.41 lucene-core 6.2.1**
  - 1.41.1 Available under license
- 1.42 Net-SNMP 5.4.2.1**
  - 1.42.1 Available under license
- 1.43 One-JAR 0.96**
  - 1.43.1 Available under license
- 1.44 openldap 2.3.27**
  - 1.44.1 Available under license
- 1.45 OpenSSL 1.0.2k :1**
  - 1.45.1 Notifications
  - 1.45.2 Available under license
- 1.46 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0**
  - 1.46.1 Notifications
  - 1.46.2 Available under license
- 1.47 PAR 1.002**
  - 1.47.1 Available under license
- 1.48 PAR::Packer 1.008**
  - 1.48.1 Available under license

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## **1.53 python-Levenshtein 0.12.0**

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## **1.54 python2-stix 1.2.0.4**

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## **1.55 PyXML 0.8.2**

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1.56.1 Notifications

1.56.2 Available under license

## **1.57 ReportLab 2.4**

1.57.1 Available under license

## **1.58 requests 2.9.1**

1.58.1 Available under license

## **1.59 rsa 3.3**

1.59.1 Available under license

## **1.60 SHA1 0.1**

1.60.1 Available under license

## **1.61 simplejson 2.0.9**

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## **1.62 Sleepycat 4.4.20**

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## **1.63 smartmontools 5.39.1**

1.63.1 Available under license

## **1.64 SOAPpy 0.12.0**

1.64.1 Available under license

## **1.65 SSL\_dane 1.0**

## **1.66 stunnel 4.56 :2013.03.22**

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## **1.67 sudo 1.7.4p4**

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## **1.68 sudo\_BSD 1.7.4p4**

1.68.1 Available under license

## **1.69 swig 3.0.12**

1.69.1 Available under license

## **1.70 TinySSL 1.03**

1.70.1 Available under license

## **1.71 unbound 1.7.0**

1.71.1 Available under license

## **1.72 velocity 1.5**

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## **1.73 YUI 2.8.0**

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```
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under certain conditions; type `show c' for details.
```

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```
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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!

## 1.15 cabby 0.1.20

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## 1.17 ClamAV/gplv2-portions 0.99.2

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```

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```
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
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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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```
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!

## 1.24 dcc 1.2.58

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# 1.25 fpconst 0.7.2

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LZ4 - Fast LZ compression algorithm

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You can contact the author at :

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

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LZ4 COMPRESSION FUNCTIONALITY IN ZFS

/\*-

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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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```
/*$FreeBSD: release/9.2.0/sys/dev/ixgb/LICENSE 139749 2005-01-06 01:43:34Z imp $*/  
/*-
```



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```
*****  
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-- Keir Fraser (on behalf of the Xen team)

```
=====
```

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I hate legalese, don't you ?

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\*

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\*/

LZ4 - Fast LZ compression algorithm

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You can contact the author at :

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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 DMIAnchorString[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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```
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```

From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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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\_snprintf.c:

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#

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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.

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=====  
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## 1.29 fuzzywuzzy 0.10.0

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## 1.30 HttpClient 3.0.1

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## 1.32 jansson 2.5

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## 1.34 json-c 0.9

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## 1.35 jzlib 1.0.7

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```
/* -*-mode:java; c-basic-offset:2; -*- */  
/*
```

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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;
            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();
}
*/
}

```

## 1.36 langdetect 1.0.5

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language-detection license

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## 1.38 libev 4.03

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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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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.48 PAR::Packer 1.008

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```
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```

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```
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```

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```
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at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.49 Perl 5.8.9

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The End

## 1.50 PostgreSQL 7.4.2

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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.

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	yes (2)
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	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	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	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
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
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### 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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2.4.4	2.4.3	2006	PSF	yes	
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#### Mersenne Twister

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

email: [matumoto@math.keio.ac.jp](mailto: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  
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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

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-----

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test\_epoll

-----

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Select kqueue

-----

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# 1.53 python-Levenshtein 0.12.0

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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")
```

```
: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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qp\_xml:

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sgmlp.c:

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setupect/install\_data.py:

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schema/trex.py

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test/domapi/ (and test/test\_pyxmlDOM.py)

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 * $Revision: 1.3 $
 * $Date: 2000/04/27 01:21:00 $
 *
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## 1.58 requests 2.9.1

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SOAPpy - Simple to use SOAP library for Python

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## 1.65 SSL\_dane 1.0

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## 1.70 TinySSL 1.03

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## 1.72 velocity 1.5

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# 1.73 YUI 2.8.0

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