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Package list:

linux-kernel
alsa-lib
busybox
crypto
directfb
dosfstools
e2fsprogs
exceptionmonitor
fuse
gdisk
glib
glibc
iptables
libmicrohttpd
libnuma (in numactl)
procps
pump-autoip
XZ utils

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<http://oss.sony.net/Products/Linux/>

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klibc and jemalloc

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dhcpcd

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End

net-snmp

One of the goals of the Net-SNMP v5 development line, is to try and clarify the distinction between the “public” library API, and routines that are regarded as being more “internal” to the library.

This doesn’t mean that application writers are discouraged from making use of such internal routines. There is a strong feeling within the development team that as much as possible of the library should be made externally visible, to support writing as wide a range of applications as possible. To that end, most routines will be declared within an installed header file, rather than privately within the library code files themselves.

The public/internal categorisation is rather concerned with issues of documentation, stability, and ease of programming. The public API routines have been selected as those covering the more common requirements (e.g. creating SNMP requests, sending them to other SNMP agents, and interpreting the results), together with certain supporting activities (e.g. run-time configuration). The intention is that these routines should be properly documented, and remain relatively stable. We will attempt to avoid changing the profile of these interfaces, and would normally provide some mechanism to retain backward compatibility if need be.

On the other hand, the internal API routines are regarded as just that - “internal” - so may legitimately be changed without providing any compatibility mechanism. You are perfectly free to make use of these routines, but be aware that you do so “at your own risk”.

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There are (currently) eight main “public API” header files, relating to various areas of SNMP programming, plus a combined “all-in-one” header file (net-snmp-includes.h).

Currently these simply include the relevant library header files following the UCD-SNMP organisation. However, the intention is for future releases to declare the public API calls directly within these top-level header files, and use the ‘library/*.h’ files for the more internal calls. (i.e. those that are more likely to change over time).

Until this process can be started, the best approximation to the “public API” list is probably those routines that are documented in manual pages. Apologies for any confusion, but hopefully this process will result in a clearer end result than at present.

Applications writers are encouraged to start #including the new header files as soon as possible - either individually, or using the combined wrapper file. Hopefully, with only a handful of top-level files, it will be reasonably clear which file(s) might be appropriate for any particular programming requirement.

One final disclaimer: The above description represents my own personal aims and understanding of the likely development of the library API. While I have every confidence in having the support of the other developers (or being able to persuade them of the benefits of this approach!), it may turn out that things actually take a different route. Anyone wishing to influence the organisation of the eventual

library API is encouraged to subscribe to the net-snmp-coders mailing list, and contribute to the discussions there.

Dave Shield
February 2002

picojson

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