

FLEXnet® Publisher Licensing Toolkit

Release Notes

Version 10.8.5

December 2006

Overview

These release notes contain the following sections:

- Summary of Enhancements
- Deprecated Functions
- Resolved Problems
- Deployed Platform Notes

Summary of Enhancements

Version 10.8.5

No enhancements or new features have been included in this maintenance release.

Version 10.8.2.1

No enhancements or new features have been included in this maintenance release.

Version 10.8.2

No enhancements or new features have been included in this maintenance release.

Version 10.8.0.7

SERVICE STARTUP DELAY CONFIGURATION ON WINDOWS PLATFORMS

For FLEXnet license servers configured to automatically start as a service on Windows platforms, it is now possible to configure a delay to the server startup. This is used in situations where the license server needs to wait for other drivers to start before it starts up.

A likely scenario where this delay is needed is when a FLEXnet license server hostid is tied to a FLEXid dongle and the server is configured to start at system startup as a service, the license server will sometimes fail to start upon reboot of the system. In such cases, adding a slight delay of one to three seconds to the service startup allows the dongle device driver to load properly and allows the server to start up correctly.

To enable the service delay for a particular service,:

1. Locate the existing key for your license server service at this registry location:

`HKEY_LOCAL_MACHINE\SOFTWARE\FLEXlm License Manager\service_name`

Where *service_name* is the name of the license server service you have already configured.

For details on configuring the license server as a service, see information on the `installs` utility in the *FLEXnet Licensing Programming and Reference Guide*.

2. Add the following string value to this key:

Name: serviceDelay

Type: REG_SZ

Data: The service delay in seconds. If unlimitedServiceDelay is not defined, the value can be 1 through 20 seconds. If the unlimitedServiceDelay is defined, the value is unlimited. See Step 3 on how to define unlimitedServiceDelay.

3. To define unlimitedServiceDelay, configure this string value under the same key as serviceDelay:

Name: unlimitedServiceDelay

Type: REG_SZ

Data: value not set

OPTIONS FILE LIMITATION

When the RESERVE, EXCLUDE, INCLUDE, or MAX options file keywords are specified for a feature that is a component feature of a SUITE_RESERVED package, the FLEXnet vendor daemon ignores the entry when reading the options file. In this case, only package names are accepted with these keywords, which results in all the components of the package being affected.

NEW IPV6 HOSTID SUPPORT

- Support for IPv6 hostids has been qualified on Red Hat® Enterprise Linux 3.0 and 4.0 for PowerPC. This support is in addition other platform support introduced in v10.8; for more information, see [Hostid Support for IPv6 Addresses](#).

FLEXID SUPPORT ON WINDOWS 64-BIT PLATFORMS

- Support added for Aladdin Knowledge Systems HASP® 4 M1 USB memory key, part number FLEXid-ALA-7200, on Windows 64-bit Intel® Xeon™ platforms. This type of FLEXid can be used as a hostid in the following contexts:
 - As a hostid in FEATURE/INCREMENT line of a license file residing locally on a Windows 64-bit platform. These licenses can be authenticated by a local Windows 32-bit FLEXenabled application built with a Windows 32-bit FLEXnet Licensing toolkit, only.
 - As a hostid in a SERVER line of a license file residing on a Windows 64-bit platform. These licenses can be authenticated by a Windows 32-bit FLEXnet license server system, only. However, licenses can be served to any requesting FLEXenabled application, regardless of platform.
- You need the HASP 4 driver, v4.98, available from www.aladdin.com/support/hasp/hasp4/enduser.asp.

Version 10.8.0.1

No enhancements or new features have been included in this maintenance release.

Version 10.8

THREE-SERVER REDUNDANT CONFIGURATION ENHANCEMENTS

- New keywords have been added to the SERVER license file line to specify the behavior of the master license server system of a three-server redundant configuration. See the *FLEXnet Licensing End User Guide* for further details.

NEW FLEXIBLE API FUNCTION

- This release of FLEXnet Licensing introduces the FLEXible API function, `lc_get_version()`. This function is used to retrieve the version of the FLEXnet Licensing client library linked into the FLEXenabled application.

COMMON VENDOR DAEMON

- Support for common vendor daemon technology for those publishers wishing to deploy a single vendor daemon that serves features previously authenticated by one or more vendor daemons— See the *FLEXnet Licensing Programming and Reference Guide* for further details.

COMPATIBILITY WITH OTHER MACROVISION PRODUCTS

- FLEXnet Licensing v10.8 requires compatible versions of FLEXnet Manager, *SAMreport*, and *SAMsuite*. Contact Technical Support for compatibility requirements and make your end users of these products aware of the requirements.

NEW PLATFORM SUPPORT

- Support added for Solaris™ v10. See [Deployed Platform Notes](#) for further information.

HOSTID SUPPORT FOR IPV6 ADDRESSES

- An IPv6 address can now be used as a FLEXnet Licensing hostid. It can be specified in the following contexts:
 - In a license file SERVER line to specify the license server system machine
 - In license file FEATURE and INCREMENT lines
 - In an options file HOST_GROUP keyword or to specify host restrictions
- Limitation on Windows platforms: An IPv4-aware FLEXenabled application cannot connect with an IPv6-aware license server system, even if the Windows platform is configured with a dual IPv4/IPv6 stack.
- Supported platforms include:

Operating System	FLEXnet Licensing Platform Name
Red Hat® Enterprise Linux 3.0 Intel® Itanium® x86 AMD Opteron™	it64_re3 i86_re3 amd64_re3
Solaris™ Solaris 8, 32-bit Solaris 8, 64-bit Solaris 10, 64-bit Opteron/Xeon	sun4_u8 sun64_u8 x64_sun10
HP-UX HP 32-bit HP 64-bit	hp700_u11i hp64_u11i
AIX® 5L v5.0, 64-bit	rs64_u5
SuSE® Linux Enterprise Server 8	amd64_s8
Mac® OS X 10.3	ppc_mac103

Operating System	FLEXnet Licensing Platform Name
Microsoft® Windows® XP	i86_n3

Version 10.1.6

LMTOOLS

- Added ability to ignore all license file paths that are set in environment variables and in the registry. When set to ignore, LMTOOLS uses only the path information set up in Config Services tab to find license files for status inquiries.

NEW PLATFORM SUPPORT

- Support added for Red Hat® Enterprise Linux v3.0 and SuSE® Linux Enterprise Server 9 on PowerPC™. See [Deployed Platform Notes](#) for further information.

Version 10.1.3

EXPANDED FLEXID SUPPORT

- Support added for 1-Wire® USB port adapters from Dallas Semiconductor/Maxim Integrated Products, Inc. Note that support is provided only on 32-bit Microsoft Windows platforms (Windows NT excluded).

PROXY SUPPORT IN THE FULFILLMENT API

- The Fulfillment API now supports SOAP service requests and responses to and from a proxy server.

DEPRECATED FUNCTIONS

- Several FLEXible API functions have been deprecated in this release. Consult the new header file, machind/deprecated.h for a complete listing. See “Deprecated Functions” in these Release Notes for usage information.

Version 10.1

SINGLE THREADED APPLICATION SUPPORT (UNIX® PLATFORMS ONLY)

- The FLEXnet Licensing client library, liblmgr_nomt.a, is now available in the toolkit to support single threaded applications. It is implemented with non-reentrant OS system calls and is used when the FLEXenabled application cannot use multithreaded system libraries. A position-independent version, liblmgr_nomt_pic.a, is available on selected UNIX platforms.

The original FLEXnet Licensing client libraries, liblmgr.a and liblmgr_pic.a, are still available in the toolkit to support multithreaded applications.

NEW OPTION IN LMSTRIP

- The lmstrip utility has a new option: -x. This option suppresses obfuscation, but still produces a map file.

FLEXID DRIVERS

- FLEXid® drivers have been updated and packaged into a new installer. See the FLEXid_Readme.pdf in the toolkit machind directory for further information.
- New FLEXid drivers have been added to support USB dongles on Mac OS®, Red Hat® Linux, and SuSE® Linux platforms.

RED HAT ENTERPRISE LINUX

- Red Hat Enterprise Linux v3.0 is now supported. See “Deployed Platform Notes” for further information.

HOSTID SUPPORT ON SOLARIS™ PLATFORMS

- Support has been added for the ethernet address hostid type on all Solaris platforms.

Version 10.0**FLEXNET FULFILLMENT API**

- Support added for the new FLEXnet Fulfillment API, providing the ability to automate the process of delivering license certificates to your end user. See the *FLEXnet Licensing Programming and Reference Guide* for complete details.

FLEXnet Fulfillment API-enabled code executes at the end-user site, either at install-time or run-time, and works in conjunction with the FLEXnet Operations Fulfillment service at your site; thus, providing a transparent means of supplying licenses to your end users.

- Supported platforms include:

Operating System	FLEXnet Licensing Platform Name
HP-UX 10.20 to 11.20	hp700_u10
HP-UX 11.20	hp700_u11
Red Hat Linux 9	i86_r9
Solaris 2.5 to 2.6	sun4_u5
Solaris 2.7	sun4_u7
SuSE Linux Enterprise Server 8 (32-bit)	i86_s8
SuSE Linux Enterprise Server 8 (64-bit)	amd64_s8
Windows 98/NT/2000/XP/ME, Windows Server 2003	i86_n3

PERFORMANCE ENHANCEMENTS

- FLEXenabled applications now experience fewer communication time-outs with the license server.

NEW PLATFORM SUPPORT

- Support added for SuSE Linux Enterprise Server 8.

LICENSE REQUEST PROCESSING (WINDOWS PLATFORMS ONLY)

- Improved performance when the FLEXnet license server processes license requests. To enable the performance enhancement, set the TCP_NODELAY environment variable (in the license server environment) to 1. This feature should be used with caution as it may cause an increase in network traffic.

FULLY QUALIFIED DOMAIN NAMES

- Hostids in license files can now be specified as fully qualified domain names.

LONG IDENTIFIERS

- The maximum size for user names, host names, and display names has been increased to 1024 bytes.
- The maximum size for FEATURE, INCREMENT, UPGRADE, and PACKAGE lines has been increased to 4096 bytes.
- The maximum size for checkout-data string used with the LM_A_CHECKOUT_DATA FLEXible API attribute has been increased to 1024 bytes.

DOCUMENT REORGANIZATION

- *Getting Started with the FLEXnet Licensing Toolkit*: Evaluation material from the former *FLEXlm Programmers Guide* has been taken to create this new guide. Additional chapters have been added to provide supporting material for the evaluation.
- *FLEXnet Licensing Programming and Reference Guide*: This new guide combines the former FLEXlm Reference Manual and the non-evaluation material from the former *FLEXlm Programmers Guide*. A new checklist has been added to aide the vendor in organizing FLEXnet Licensing implementation decisions.

Informational

If different packages are created that have component names in common, and an application checks out a component with one of those common names, there is currently no way to specify which package the checkout will come from. Therefore, when OPTIONS=SUITE_RESERVED is used with DUP_GROUP, a single checkout may consume two or more licenses (because components may be checked out from different packages) in cases where it might be expected that only one license would be consumed.

Deprecated Functions

To access these functions, include the header file, machind/deprecated.h, into your source code.

Macrovision discourages the use of these functions because they are deprecated and may be removed in a future release of FLEXnet Licensing. Contact support regarding suitable replacement function calls.

lc_ascii_date

```
char *lc_ascii_date(
    LM_HANDLE *lm_job,
    char *hex_date
);
```

PARAMETERS

```
LM_HANDLE *   lm_job
               Pointer to LM_HANDLE

char *        hex_date
               Pointer to the date in hexadecimal format, such as returned by the
lc_extract_date() function
```

RETURN VALUES

char * Pointer to the date in the format *dd-mmm-yyyy*—The date, 01-jan-2025, is returned if *hex_date* is invalid.

lc_extract_date

```
char *lc_extract_date(
    LM_HANDLE *lm_job,
    char *license_key
);
```

The license key must have been generated with embedded dates enabled. Embedded start dates are enabled with the `LM_A_LKEY_START_DATE` attribute. The return value is suitable as input to the `lc_ascii_date()` routine.

PARAMETERS

LM_HANDLE * *lm_job*
 Pointer to LM_HANDLE

char * *license_key*
 Pointer to the license key

RETURN VALUES

char * The hexadecimal representation of the date—The value, 0, is returned if the start date is undefined.

lc_lookup

```
CONFIG *lc_lookup(
    LM_HANDLE *lm_job,
    char *feature
);
```

PARAMETERS

LM_HANDLE * *lm_job*
 Pointer to LM_HANDLE

char * *feature*
 Pointer to a feature name

RETURN VALUES

char * A pointer to the config structure for *feature*

Resolved Problems

Version 10.8.5

Problem Number	Description
IOA-00006938	The issue related to memory not being freed after an <code>lc_feat_list()</code> call has been fixed.
IOA-000027159	On some 64-bit systems, the vendor daemon could become confused about which clients were actually connected, and would sometimes close a client connection that should not have been. This would result in a checkin message in the log file followed by a checkout message a few minutes later when the client reconnected because of the heartbeat. This issue has been resolved.
IOA-000027497	FLEXnet Publisher now recognizes the FLEXID9 (USB) dongle when using the <code>i86_re3</code> toolkit.
IOA-000025545	Added a new <code>-Ae</code> compiler flag on HP-UX11 toolkits.
OA-000590	Previously, intermittent -33 errors were reported when the client application connected to the license server. This has been fixed.
IOA-000027993	Previously, the vendor daemon would crash when certain checkout sequences were performed on the component of a suite reserved package. This has been fixed.
IOA-000026640	Blanks spaces before the <code>START_LICENSE</code> keyword caused the entire text between the <code>START_LICENSE\n</code> and <code>\nEND_LICENSE</code> to be ignored. This has been fixed.
IOA-000023194 and OB-000460	Issues related to linking an <code>obj</code> or <code>lib</code> file that was processed using <code>lmstrip</code> , have been fixed.
IOB-00004673	On 64-bit Linux platforms, a separate thread was not created for heartbeats. This has been fixed.
IOB-000048403	Under certain conditions when the checkout of a component of a package failed it caused a memory leak in the server. This memory leak has been fixed.
IOA-000024245	With certain Windows toolkits, <code>lmstrip</code> crashed when attempting to strip objects with symbol names longer than 512 bytes. This has been fixed.
IOA-00005373	Initial releases of <code>lmttools</code> on 10.8 required that a debug log file to be specified. This requirement no longer exists.
IOB-00002988	When checking out a feature with <code>TS_OK</code> on the feature line there was a memory leak on the client. This has been fixed.

Problem Number	Description
IOB-000048124	Previously, clients running on either a dual processor Windows system or other very fast Windows system would fail with a -15 network error when trying to checkout a license from the server. This has been fixed.
IOC-000052066	When configured as a Common Vendor Daemon, the server would crash if it could not verify one of the lock files. This has been fixed.
IOA-000027693	On UNIX, when using a Common Vendor Daemon, the server did not properly timestamp the lock files for the secondary daemons. This sometimes resulted in the lockfiles being removed once a month by a cleanup script thereby causing the server to exit. This has been fixed.
IOA-000006317 and IOB-000003407	Issues related to the commands "lmstat -c file/server_list" and "lmpath -status" not working correctly have been fixed.
IOA-000025176 and IOA-000023593	Previously, on certain platforms the IP address was printed backwards in the debug log during the lmdown process. This has been fixed.
IOA-000026349	Added lc_master_list function back as a supported API. Added the following new functions: <ul style="list-style-type: none"> • ls_log_message(char *) • FEATURE_LIST *ls_get_next_feature(FEATURE_LIST *current) • void lc_bin_date(char *date, char *return_date)
IOA-000023068	Previously, the RESERVE option did not work correctly with PACKAGE licenses. This has been fixed.
OA-002829	Previously, users who were excluded in the options file were still able to borrow licenses. This has been fixed. Now, users who are excluded in the options file can neither checkout a license nor borrow a license.
IOA-000027757	Previously, when the environment variable "HOME" was not defined on Linux, the application would hang. This has been fixed.
IOA-000027799	An issue related to "Write error to client: Connection lost." messages appearing in the debug log file has been fixed.
IOA-000006447	Previously, on 64-bit Itanium Red Hat Enterprise Linux toolkits, the following compiler warning appeared: "'sys_errlist' is deprecated". This has been fixed.
IOB-000003808	An issue related to lmstrip not stripping certain symbols has been fixed.

Problem Number	Description
IOA-000012734	In earlier releases, <code>lmstat -f PKG</code> did not list the user names that were using the package licenses. This issue has been resolved and the user names are now listed.
IOA-000023145	The daemon port is now released after using the <code>reuseaddr</code> option.
IOA-000024111	The <code>lmstat</code> utility now displays the correct PACKAGE quantities.
IOA-000027163	Previously, after performing an <code>lmreread</code> of the license file, <code>lmstat</code> reported incorrect information. This has been fixed.
IOA-000027165	Previously, on 64-bit Solaris systems, the vendor daemon crashed when <code>lmreread</code> and <code>lmstat</code> were invoked. This has been fixed.

Version 10.8.2.1

Problem Number	Description
IOA-000026537	On Solaris, the COMPOSITE HOSTID value now changes when using different system hostid types. This means that the composite hostid value generated by combining HOSTID_LONG and HOSTID_HOSTID is not the same as the composite hostid generated by combining HOSTID_LONG and HOSTID_INTERNET or HOSTID_USER.
IOA-000027060	On Solaris 8, unsupported hostids are no longer returned as blank strings. <code>lc_hostid</code> now properly returns the default hostid.
IOA-000027064	The composite hostid is now threadsafe.
IOA-000027299	A memory leak found in <code>lmgrd</code> was corrected.

Version 10.8.2

Problem Number	Description
OA-000703	Previously, the inactivity timeout specified in the options file did not always occur at the correct time during execution. This issue has been resolved. Note that the actual occurrence of the timeout can be affected by system load, and may not exactly match the specific value.
OA-003638	SUPERSEDE now works with the AUTH keyword.

Problem Number	Description
OA-004286	The <code>lmgrd</code> utility can now be started as a service through <code>lmttools</code> . Previously, <code>lmgrd</code> failed to start if configured as a service through <code>lmttools</code> and if the license file path entry in the registry had been edited to include more than one license file.
OA-005021 and IOC-000050254	FLEXnet now returns both components and packages when using <code>PACKAGE SUITE + BORROWING</code> .
IOA-000005389 IOA-000009728 IOA-000025820	Specific memory leaks have been corrected.
IOC-000046567	Lingered licenses are now being properly released when a client application has shut down.
IOA-000024113	A problem that could intermittently cause a vendor daemon to terminate with status 50 on HP-UX platforms has been corrected.
IOA-000024593	Previously, under certain conditions, the <code>lmdown</code> command would not properly shut down the license server. This has been corrected.
IOA-000025173	An issue that could cause <code>lc_checkin</code> to fail when using the <code>LM_CI_ALL_FEATURES</code> option has been corrected.
IOA-000025435	Previously, under certain conditions (including heavy system load), it was possible that some lingered licenses that had been checked out could not be properly returned to the license pool, requiring a server restart to retrieve them. This has been corrected.
IOA-000025897	A problem that in rare cases could cause an application to crash, particularly on the Mac OS/Intel CPU platform, has been corrected.
IOA-000024847	Corrected an issue related to checkout time being slow on Linux / UNIX license servers.
IOA-000013758 and IOA-000008904	A security issue that allowed circumvention of Tamper Resistant License protection for certain uncounted license types has been resolved.
IOA-000024203	A memory leak associated with calling <code>lc_next_conf()</code> has been corrected.

Problem Number	Description
IOB-000004944	Previously, calling <code>lc_checkin(job, LM_CI_ALL_FEATURES, 0)</code> could leave some PACKAGE features checked out when SUITE_RESERVED was set. This has been resolved, and that call now checks in all features of the job.
IOB-000005257	The <code>lmutil -v</code> command now returns the version number.

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Problem Number	Description
IOB-000005202	Previously, the <code>lmstat</code> command reported an incorrect number of license seats. This issue has now been resolved, and the <code>lmstat</code> command reports the correct number of available license seats.
IOB-000005056	In earlier releases, it was possible to reserve individual components of a <code>SUITE_RESERVED</code> package via the options file; however, permitting this usage had undesirable consequences for how feature reservations were handled or reported. Now, when using <code>SUITE_RESERVED</code> , you must reserve the actual package itself, which in turn will reserve each component feature of the package. A debug log message on the server side has been added, indicating that reservations of individual <code>SUITE_RESERVED</code> component features are ignored when reading the options file.
IOA-000006431	Previously, the message “Wrong hostid on the SERVER line” would display whenever a machine running FLEXnet Licensing Manager version 9.2 was rebooted. This issue has been resolved and the message no longer appears.
IOA-000023049	In earlier releases, if the <code>LM_LICENSE_FILE</code> or <code>SNPSLMD_LICENSE_FILE</code> environment variable was set before starting the CVD license server, then the server would not start properly and the license server only serves keys for the primary daemon only. This issue has been resolved.
IOA-000013117	Previously, common feature components that were shared between different packages were incorrectly treated as duplicates, meaning that customers were unable to obtain the correct number of purchased components. This issue was seen only if the key file is in CVD format. This issue has been resolved, and customers can now obtain their purchased components.
IOA-000013101	Previously, the vendor daemon failed to restart properly if quorum was lost by <code>lmgrd</code> and then re-established. This issue has been resolved.
IOB-000004318	Previously, when using a common vendor daemon in a license file with <code>PACKAGE</code> lines, only the first <code>INCREMENT</code> line for the <code>PACKAGE</code> is recognized. This issue has been resolved, and both <code>INCREMENT</code> lines are now recognized.
IOA-000012141	In a three-server configuration, <code>lmgrd</code> shut down the vendor demon properly if quorum was lost, but then immediately restarted the vendor demon. This issue has been resolved, and the vendor demon restarts only when quorum has been re-established.
IOA-000010733	In some circumstances, the license server configured to run as a Windows service, and whose hostid was tied to a FLEXid, would fail to start up upon reboot of the system and report the following error: <p style="text-align: center;">Wrong hostid on the SERVER line</p> It is now possible to specify a service startup delay; see Service Startup Delay Configuration on Windows Platforms for further information.

Problem Number	Description
IOA-000008735	Customers upgrading to FLEXnet Publisher versions 9.2 and higher may have seen performance degradation. This issue has been resolved, and the performance degradation no longer occurs.
IOB-000002877	For customers using Solaris, the <code>lc_get_attr</code> application may have hung during attempts to retrieve checkout data if called inside a reconnect callback. This issue has been resolved.
IOA-000023876	When using the options file with the following keywords: RESERVE EXCLUDE INCLUDE MAX with a feature that is a component of a SUITE_RESERVED package, the license server will ignore the entry when reading the options file. Users can only RESERVE the PACKAGE itself, which results in all the components of the package being reserved.
IOA-000013118	In earlier versions, the redundant license server did not show quorum status information at start up. Quorum information is now displayed in the debug log file, and users receive feedback about the quorum establishment and whether the license servers (in triad) have started up properly.
IOB-000004992	In previous releases, users may have received error message FLEXlm -15. This was caused by an OS on Win XP SP2 when either the license server or the standalone process was running, possibly affecting server and point-to-point programs that needed to open several outbound connections simultaneously. This issue has since been resolved, and the error message no longer appears.
IOA-000007859	An issue related to intermittent hangs in a three-server redundancy configuration has been fixed.
IOA-000009398	An issue related to the log file being written to inconsistent locations has been fixed.
IOA-000012606	A set of issues related to intermittent restarts in a three-server redundancy configuration have been fixed.
IOA-000025330	An issue related to missing PIC versions of libraries on some of the platforms has been fixed.
IOA-000025840	An issue related to linking the PIC version of the Mac libraries has been fixed.
IOB-000005121	An issue related to a failover delay in a three-server redundant server configuration after primary power failure has been fixed.

Problem Number	Description
IOA-000009633	In some circumstances, Bad handshake detected messages are written to the vendor daemon debug log file when the requested feature is missing in the license file.
IOA-000009837	The license server system fails to server licenses because of server socket listen-queue overflow.
IOA-000010419	In a three-server redundant configuration, secondary and tertiary license server systems inconsistently reconnected to the primary server after a disconnect from the network.
OA-008669	With certain sequences of calls to retrieve the borrow status and return a borrowed license early, a program crash can occur when the licensing job is freed.
OA-004989	In some circumstances, the license server manager crashes or hangs when it is managing a very high volume of license checkout and checkin requests.
IOA-000006227	When the FLEXenabled application accesses the FLEXnet Licensing client library as a DLL, the license server system mis-calculates the number of borrowed licenses.
OA-002803	On Linux platforms, the vendor daemon can't create a lock file on ReiserFS filesystems.
OA-004303	The vendor daemon becomes blocked by invalid, queued checkout requests causing it to stop serving licenses for the feature even if licenses are available.

Version 10.8.0.1

Problem Number	Description
OA-005364	lc_checkin(LM_CI_ALL_FEATURES) is broken.
OA-004640	Added -reuseaddr to the lmgrd command line.
OA-005344	Memory leak in lmgrd
OA-004724	Feature version is ignored if TS_OK is set.

Version 10.8

Problem Number	Description
OA-001367	A FLEXenabled application that sets LM_A_LICENSE_DEFAULT multiple times generates a memory violation.
OA-001497	All three servers in a three-server redundant configuration shut down if a new master is established and subsequently shuts down. This happens when all three servers are configured as Windows services.
OA-001550	User names containing Korean double-byte characters are not displayed correctly in LMTOOLS status enquiries.
OA-001731	Duplicate of OA-001367
OA-001937	When all three servers in a three-server redundant configuration are configured as Windows services and the master is stopped with LMTOOLS, the other two servers shut down as well.
OA-001957	The <code>lmremove</code> utility and <code>lc_remove()</code> function leaves the license server in an inconsistent state after removing the requested feature.
OA-002023	A fully qualified host name used as a hostid does not always match that specified in the license certificate. This results in failure to checkout the feature.
OA-002102	License reread commands from LMTOOLS fail when the license file name contains Korean double-byte characters.
OA-002146	Host names between 31 and 63 chars fail to authenticate.
P7105	Unloading the FLEX <code>lm</code> DLL causes the application to fail (Windows platforms only).

Version 10.1.3

Problem Number	Description
OA-000877	When the open file descriptor limit is reached, the license server manager continually logs “out of file descriptor” messages instead of logging it just once.
OA-001105	Unloading the FLEX <code>lm</code> DLL causes the application to fail (Windows platforms only).
OA-001294	A license server system in a three-server redundant configuration fails to restart after the machine is disconnected and then reconnected.

Problem Number	Description
OA-001670	The maximum length allowed for a vendor name is 9 instead of 10 bytes and for a feature name is 29 instead of 30 bytes.
OA-001846	Fulfillment API fails with an "Invalid Hostid" error when COMPOSITE hostid is specified.
OA-001854	The FLEXnet Licensing client library needs to call re-entrant native system calls in order to maintain a thread-safe execution environment.
P6503	Under some circumstances, the <code>lmdiag</code> utility reports checkin failure for a feature that otherwise had been successfully checked out and back in.
P6846	License servers in a three-server redundant configuration do not successfully renegotiate after a disconnection if they use TCP/IP ports in the default range of 27000-27009.
P7184	Selecting the System Setting tab in <code>lmtools</code> always tries to start the DS1410D driver (for Dallas FLEXid dongles) even if it is not installed.
P7434	If the master changes in a three-server redundant configuration, the first checkout request succeeds, but subsequent ones fail.
P7560	Setting the <code>LM_A_CHECK_INTERVAL</code> with <code>lc_set_attr()</code> always results in the return value of -42.
P7750	In some circumstances, shutting down the FLEXnet license server system with the <code>lmtools</code> utility removes checkout and checkin information from the debug log file.
P7776	The <code>GROUPCASEINSENSITIVE</code> options file keyword is ignored if it follows the <code>REPORTLOG</code> keyword.
P8155	When borrowing licenses for components of a package suite, the command <code>lmborrow -return</code> returns the licenses for the components but not the package suite license
P8625	The <code>lmstat</code> utility doesn't indicate the correct number of issued licenses for floating features that use the <code>USER_BASED</code> keyword.

Version 10.1

Problem Number	Description
OA-000432	Duplicate of OB-000008
OA-000648	It is possible to borrow a license beyond its expiration date.

Problem Number	Description
OA-000703	Timeouts do not occur according to the timeout value configured with the TIMEOUT keyword in the options file.
OA-000743	Support for ethernet address as a hostid for Solaris on x86 (i86_x5) platforms.
OB-000008	FLEXnet Licensing 10.0 utilities cause erroneous results and crashes when used with pre-10.0 licensing components.
P6727	The LM_A_USER_RECONNECT_DONE callback routine is being called unnecessarily when a borrowed license is checked out.
P7025	The license server manager, lmgrd, needs to create C:\flexlm for backward compatibility.
P7550	FLEXlm does not write to the event log warning that licenses are going to expire or even after licenses expire.
P7592	Vendor daemon fails after thousands of checkouts. The limit is around 3000.
P7771	In certain circumstances, the debug log gets corrupted when written to by a FLEXlm Windows service.
P7780	Licenses that are components of a package suite (OPTIONS=SUITE_RESERVED) are inadvertently checked in after the lmreread utility is run.
P8016	Remove LCM from the product.
P8128	The lmreread utility returns incorrect error codes instead of the correct LM_MAX_USERS.
P8139	The FLEXnet Licensing client library needs to call re-entrant native system calls in order to maintain a thread-safe execution environment.
P8263	Obsolete external symbols in liblmgr.a cause undefined references at link time.
P8550	Need to add USB dongle support on Linux platforms.
P8559	UPGRADE lines don't work correctly with ls_compare_vendor_on_increment or ls_compare_vendor_on_upgrade set to 1.
P8563	The lc_heartbeat() function inappropriately calls the exit process when it loses connection to the license server system.
P8606	Redundant server posts the message, "no quorum established," in the debug log when the versions of lmgrd and the vendor daemon are mis-matched.
P8692	flexid.exe does not contain the latest dongle drivers.

Version 10.0

Problem Number	Description
P6435	In some circumstances, FLEXenabled clients do not execute properly on systems supporting multi-byte character sets.
P6929	Duplicate of P6435
P7349	If the <code>lmremove</code> utility is disabled, a borrowed license cannot be returned early.
P7424	Duplicate of P7529
P7428	A borrowed license cannot be returned early, via <code>LMTOOLS</code> , if the license file includes <code>USE_SERVER</code> .
P7468	On Red Hat Linux platforms, <code>lmreread</code> crashes if the license server <code>hostid</code> is specified in the license file with an IP address.
P7488	In certain circumstances, extra usages were possible for features with the <code>FLOAT_OK</code> keyword.
P7529	For HP-UX platforms, increased maximum number of open file descriptors to 60000 descriptors. Requires setting <code>_USE_BIG_FDS</code> compiler switch when compiling the application.
P7545	The <code>lmreread</code> utility fails if the license server has more than 2048 licenses checked out.
P7591	In some circumstances, the vendor daemon fails if the per-process file descriptor limit is greater than 4000.
P7592	For Linux platforms, increased maximum number of open file descriptors to 65535 descriptors. Requires setting <code>__FD_SETSIZE=65535</code> compiler switch when compiling the application.
P7603	In some circumstances, checkout requests fail for packages with <code>SIGN2=</code> authentication.
P7660	The vendor daemon fails with a bogus <code>hostid</code> error when processing uncounted, <code>FLOAT_OK</code> licenses.
P7665	In some circumstances, continuation characters (<code>"\"</code>) manually placed in the license template are removed by <code>lc_cryptstr()</code> when the template is approaching 2048 bytes in length.
P7682	The <code>lmdown</code> utility fails to bring down all servers in a three-server redundant configuration after a new master server is established.
P7719	Compiler warning received from <code>lsvendor.c</code> and <code>lsrvend.c</code> .
P7720	Compiler warning received from <code>lmcrypt.c</code> .
P7749	The options file <code>GROUP</code> keyword doesn't accept names with embedded spaces.

Problem Number	Description
P7789	Vendor daemon fails to close the report log cleanly when the system is shutdown.
P7899	The vendor daemon fails to close report logs cleanly when the license server is shut down.
P7915	An SDK configured with a particular set of LM_SEEDS would make it impossible to return borrowed licenses.
P7985	The default TCP/IP port range is scanned even if a port is specified on the SERVER line of the license file.
P7985	Duplicate of P7682.
P8021	In some circumstances with a high volume of checkout/checkin activity, the vendor daemon fails with a memory fault.
P8024	The BORROW_LOWWATER options file keyword has no effect if it is set to a value greater than the number of licenses for the specified feature.
P8024	The value of BORROW_LOWWATER in the options file is ignored if it is greater to or equal to the license count in the license file.
P8126	Reading a license file where this_host is specified on the SERVER line causes the FLEXenabled application to connect to a local server instead of the intended server.
P8159	Incompatibility in FLEXnet license server communication to FLEXenabled applications using FLEXnet Licensing for Java, v7.2 and earlier
P8341	The error message for error code -96 has a typographical error.

Deployed Platform Notes

The following operating systems are supported in this version of FLEXnet® Licensing. See “Detailed Platform Information” for more information on each platform.

Operating System	Hardware Platform	Version
AIX® 32-bit	<ul style="list-style-type: none"> PowerPC™, RS/6000® 	<ul style="list-style-type: none"> AIX 4.x- 5.x
AIX® 64-bit	<ul style="list-style-type: none"> PowerPC™, RS/6000® 	<ul style="list-style-type: none"> AIX 5.0 - 5.3
Alpha OSF/Tru64 UNIX® 64-bit	<ul style="list-style-type: none"> DEC Alpha 	<ul style="list-style-type: none"> OSF 3.2
FreeBSD® 32-bit	<ul style="list-style-type: none"> x86 	<ul style="list-style-type: none"> FreeBSD 3.4
HP-UX 32-bit	<ul style="list-style-type: none"> Intel® Itanium® HP 32-bit 	<ul style="list-style-type: none"> HP-UX 11.20
HP-UX 64-bit	<ul style="list-style-type: none"> Intel Itanium HP 64-bit 	<ul style="list-style-type: none"> HP-UX 11.20 HP-UX 11.00
IRIX® 64-bit	<ul style="list-style-type: none"> SGI 64-bit 	<ul style="list-style-type: none"> IRIX 6.5
Mac OS® 32-bit	<ul style="list-style-type: none"> x86 PowerPC™ 	<ul style="list-style-type: none"> Mac OS X 10.1 - 10.4
Microsoft® Windows® 32-bit	<ul style="list-style-type: none"> x86 	<ul style="list-style-type: none"> Windows 98, Me, NT, 2000, XP, Windows Server™ 2003
Microsoft® Windows® 64-bit	<ul style="list-style-type: none"> Intel Itanium Intel® Xeon™ AMD Opteron 	<ul style="list-style-type: none"> Windows XP 64-bit Edition, Windows .NET Enterprise Servers Windows Server™ 2003
Red Hat® Linux 32-bit	<ul style="list-style-type: none"> x86 AMD Opteron™ 	<ul style="list-style-type: none"> Red Hat 6.0 through 9.0 Red Hat Enterprise Linux 3.0, 4.0
Red Hat® Linux 64-bit	<ul style="list-style-type: none"> DEC Alpha Intel Itanium Intel® Xeon™ AMD Opteron PowerPC™ 	<ul style="list-style-type: none"> Red Hat Linux 6.2 Red Hat Linux 7.0 Red Hat Enterprise Linux 3.0, 4.0
SCO® OpenServer™ 32-bit	<ul style="list-style-type: none"> x86 	<ul style="list-style-type: none"> OpenServer 5.0.6
SCO® UnixWare® 32-bit	<ul style="list-style-type: none"> x86 	<ul style="list-style-type: none"> UnixWare 3.2 to 6.0
Solaris™ 32-bit	<ul style="list-style-type: none"> Sun 32-bit x86 	<ul style="list-style-type: none"> Solaris 8, 9, and 10

Operating System	Hardware Platform	Version
Solaris™ 64-bit	<ul style="list-style-type: none"> • Sun 64-bit • AMD Opteron • Intel Xeon 	<ul style="list-style-type: none"> • Solaris 7, 8, 9, and 10
SuSE® Linux 32-bit	<ul style="list-style-type: none"> • AMD Opteron • x86 	<ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 • SuSE Linux Enterprise Server 9
SuSE® Linux 64-bit	<ul style="list-style-type: none"> • AMD Opteron • PowerPC™ 	<ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 • SuSE Linux Enterprise Server 9

Detailed Platform Information

The following sections list the operating systems and their associated hardware platforms for which support is provided by FLEXnet Licensing. Each platform entry contains the following information:

- Platform
The specific hardware platform for which support is provided
- OS
The specific operating system version or versions supported on the platform
- FLEXnet Licensing platform name
This code specifies both the binary base name of the installer and the installation folder that contains the platform-specific FLEXnet Licensing components.
- Built with
The compilation and linkage command lines used to build the FLEXnet Licensing client library and other components included in the Software Development Kit
- Notes
Additional notes and caveats specific to that platform, which are useful for developing your FLEXenabled product

AIX® 32-BIT

Platform: PowerPC™, RS/6000®

OS: AIX 4.x - 5.x

FLEXnet Licensing Platform name: ppc_u4

Built with:

- cc: /bin/cc -DRS6000 -D_BSD -D_BSD_INCLUDES -DAIX_PPC
- link: /bin/cc -lbsd -lpthreads

Notes: `uname -a: AIX sysxxx 1 4 00FFFFFF4D00`

AIX® 64-BIT

Platform: PowerPC™, RS/6000®

OS: AIX 5.0 - 5.3

FLEXnet
Licensing
Platform name: rs64_u5

Built with:

- cc: -DAIX5 -DRS64 -DRS6000 -D_BSD \ -D_BSD_INCLUDES -qnoIm -q64
- link: -lbsd -q64 -lpthreads

Notes:

- `uname -a`: AIX sysxxx 1 5 000687724C00
- You have to use `ar -X64` and `strip -X64` on this platform.
- Older 32-bit binaries run fine on this OS.

ALPHA OSF/TRU64 UNIX® 64-BIT

Platform: DEC Alpha

OS: OSF 3.2

FLEXnet
Licensing
Platform name: alpha_u3

Built with: /usr/bin/cc -std -DDEC_UNIX_3

Notes:

- `uname -a`: OSF1 sysxxx V3.2 17 alpha
- Multi-threaded heartbeats are not supported.

FREEBSD® 32-BIT

Platform: x86

OS: FreeBSD 3.4

FLEXnet
Licensing
Platform name: i86_f3

Built with:

- cc: /usr/bin/cc
- link: -pthread

- Notes:
- This is the FreeBSD platform. We no longer support i86_f2, which is incompatible with i86_f3. i86_f3 however, is completely compatible with i86_f4 (freebsd 4.x).
 - `uname -a: FreeBSD sysxxx 3.4-RELEASE FreeBSD 3.4
-RELEASE #0: Mon Dec 20 06:54:39 GMT 1999
jkh@time.cdrom.com:/usr/src/sys/compile/
GENERIC i386`

HP-UX 32-BIT

- Platform: HP 32-bit
- OS: HP-UX 10.2, 11.20
- FLEXnet
Licensing
Platform name: hp700_u11
- Built with: `cc: /opt/ansic/bin/cc -DHP -DHP700 -D_USE_BIG_FDS
-DHPUX11 -Aa -D_HIUX_SOURCE -D_HPUX_SOURCE
+DA1.0 +DS1.0`
- Notes:
- `uname -a: HP-UX sysxxx B.11.00 A 9000/780 2013810305
two-user`
 - Hostid note: We no longer recommend using ethernet address as a hostid. It may fail on some HP-UX 11.x systems.

- Platform: Intel® Itanium®
- OS: HP-UX 11.20
- FLEXnet
Licensing
Platform name: it32_hp11
- Built with: `cc: /opt/ansic/bin/cc -DHP -DHPINTEL_32 -D_USE_BIG_FDS
-D_HIUX_SOURCE -D_HPUX_SOURCE`

- Notes:
- `uname -a: HP-UX sysxxx B.11.20 U ia64 2625004313
unlimited-user license`
 - Hostid note: Use `lmhostid` from the FLEXnet Licensing platform directory to determine the hostid. This returns the machine identification and is equivalent to the identification returned by the HP-UX command:
`getconf CS_PARTITION_IDENT`
 - For example:
 - > `lmhostid`
 - > The FLEXnet Licensing host ID of this machine is
"ID_STRING=9c766319-db72-d411-af62- 0060b05e4c05"
 - Older methods of obtaining the hostid which return the ethernet address are still supported, but may fail on some systems. The older methods include:
 - > `uname -i` (returns decimal hostid)
2625004313
 - > `lmhostid -long` (returns hexadecimal hostid)
The FLEXnet Licensing host ID of this machine is
"9c766319"

HP-UX 64-BIT

Platform: HP 64-bit

OS: HP-UX 11.00

FLEXnet
Licensing
Platform name: hp64_u11

Built with: `cc: /opt/ansic/bin/cc -DHP -DHP700 -DHP64 -D_USE_BIG_FDS
-Aa -D_HIUX_SOURCE -D_HPUX_SOURCE +DA2.0W +DS2.0W`

Notes: `uname -a: HP-UX sysxxx B.11.00 A 9000/780
2013810305 two-user license`

Platform: Intel® Itanium®

OS: HP-UX 11.00

FLEXnet
Licensing
Platform name: it64_hp11

Built with: `cc: /opt/ansic/bin/cc -DHP -DHP64 -DHPINTEL_64
-D_USE_BIG_FDS -D_HIUX_SOURCE -D_HPUX_SOURCE +DD64`

- Notes:
- `uname -a: HP-UX sysxxx B.11.20 U ia64 2625004313 unlimited-user license`
 - Hostid note: Use `lmhostid` from the FLEXnet Licensing *platform* directory to determine the hostid. This returns the machine identification and is equivalent to the identification returned by the HP-UX command:
`getconf CS_PARTITION_IDENT`
 - For example:
 - > `lmhostid`
 - > The FLEXnet Licensing host ID of this machine is
"ID_STRING=9c766319-db72-d411-af62- 0060b05e4c05"
 - Older methods of obtaining the hostid which return the ethernet address are still supported, but may fail on some systems. The older methods include:
 - > `uname -i` (returns decimal hostid)
2625004313
 - > `lmhostid -long` (returns hexadecimal hostid)
The FLEXnet Licensing host ID of this machine is
"9c766319"

IRIX® 64-BIT

- Platform: SGI® 64-bit
- OS: IRIX 6.5
- FLEXnet
Licensing
Platform name: sgi64_u6
- Built with:
 - `cc: /bin/cc -DSGI6 -DSGI -DSGI64 -64 -mips3`
 - `link: /bin/cc -64 -mips3 -lpthread`
- Notes: `uname -a: IRIX64 sysxxx 6.5 05190003 IP26`

MAC OS® 32-BIT

- Platform: PowerPC™
- OS: Mac OS X 10.1 - 10.4
- FLEXnet
Licensing
Platform name: ppc_mac10

Built with:

- `cc: /usr/bin/cc -framework IOKit -framework CoreFoundation -fno-common -DMAC10`
- `link: /usr/bin/cc -framework IOKit -framework CoreFoundation`

Notes: `uname -a:`
 Darwin sysxxx 1.4 Darwin Kernel Version 1.4:
 Sun Sep 9 15:39:59 PDT 2001;
 root:xnu/xnu-201.obj~1/RELEASE_PPC
 Power Macintosh powerpc

Platform: x86

OS: Mac OS X 10.4.3, Build Version 8F1111

FLEXnet
 Licensing

Platform name: i86_mac10

Built with: `cc: -DINMAC10 -DMAC10`
`link: -framework IOKit -framework CoreFoundation`

Notes:

- `uname -a: Darwin sysxxx 8.3.1 Darwin Kernel Version 8.3.1: Wed Nov 2 21:12:54 PST 2005; root:xnu-792.7.56.obj~6/RELEASE_I386 i386 i386`

MICROSOFT® WINDOWS® 32-BIT

Platform: Intel x86

OS: Windows 98, Me, NT, 2000, XP, Windows Server™ 2003

FLEXnet i86_n3 (installer name is FLEXnetLicensing.exe)

Licensing

Platform name:

Built with: `cl: Microsoft Visual C++ v6`

Notes: N/A.

MICROSOFT® WINDOWS® 64-BIT

Platform: Intel® Itanium™

OS: Windows XP 64-Bit Edition, Windows .NET Enterprise Servers, and Windows 2003 Server

FLEXnet
Licensing
Platform name: it64_n (installer name is FLEXnetLicensingIA64.exe)

Built with:

- Microsoft Platform SDK July 2002, 64-bit
- Microsoft C/C++ compiler version 13.10.2240.8 for IA-64
- Microsoft Incremental Linker version 7.10.2240.8
- Microsoft Program Maintenance Utility version 7.10.2154.8

Notes:

- LMTOOLS cannot interact with lmgrd as a service.
- Itanium CPU B3 Stepping or greater
- BIOS Firmware revision 89 or greater
- Memory RAM, 500 MB or greater
- Hard Disk, 25 MB space free or greater
- genlic GUI license generator utility support not available, please use lmcrypt command-line utility.
- Parallel or USB Dongle (FLEXid) support not available.
- CPU Serial number support (Pentium III) not available on Itanium Chip.
- The following situation can occur while building a vendor daemon in it64_n:

```
if exist lm_new.c del lm_new.c
lmnewgen.exe demo.exe -o lm_new.c
Verify failed, 0xc6f8 != 0x30f8NMAKE :
    fatal error U1077:
'lmnewgen.exe' : return
code '0xffffffff'
Stop.
```

The workaround for this error is to run nmake again. This error may occur many times before a successful build.

Platform: Intel® Xeon™
AMD Opteron™

OS: Windows Server™ 2003, Enterprise x64 Edition, and Windows XP Professional x64 Edition

FLEXnet
Licensing
Platform name: x64_n6 (installer name is FLEXnetLicensingX64.exe)

Built with:

- Microsoft Windows Server 2003 SP1 Platform SDK

Notes:

- LMTOOLS cannot interact with lmgrd as a service.
- Memory RAM, 500 MB or greater
- Hard Disk, 25 MB space free or greater
- Parallel or USB Dongle (FLEXid) support not available.

RED HAT® LINUX 32-BIT

Platform: x86

OS: Red Hat Linux 6.0, 9.0

FLEXnet
Licensing
Platform name: i86_r6 - Red Hat 6 through 8
i86_r9 - Red Hat 9

Built with: `cc: /usr/bin/cc -DLINUX -DGLIBC -DREDHAT`

Notes:

- `uname -a: Linux sysxxx 2.2.5-15 #1 Mon
Apr 1922:21:09 EDT 1999 i586 unknown`

Platform: AMD Opteron™

OS: Red Hat Enterprise Linux 3.0, 4.0

FLEXnet
Licensing
Platform name: i86_re3

Built with: `cc: /usr/bin/cc -DLINUX -DGLIBC -D__FD_SETSIZE=65535
-DREL -DX86 -DREDHAT`

Notes:

- `uname -a: Linux sysxxx 2.4.21-4.EL #1 Fri
Oct 3 18:13:58 EDT 2003 i686 i686 i386 GNU/Linux`

RED HAT® LINUX 64-BIT

Platform: DEC Alpha

OS: Red Hat Linux 6.2

FLEXnet
Licensing
Platform name: alpha_r6

Built with: `cc: /usr/bin/cc -DLINUX -DGLIBC -DALPHA_LINUX`

Notes:

- `uname -a: Linux sysxxx 2.2.14-6.0 #1 Tue Mar 28
16:56:56 EST 2000 alpha unknown`
- Multi-threaded heartbeats are not supported.

Platform: Intel® Itanium®

OS: Red Hat Linux 7.0

FLEXnet
Licensing
Platform name: it64_lr2

Built with: cc: /usr/bin/gcc -DLINUX -DLINUX64 -DRHLINUX64

Notes: uname -a: Linux sysxxx 2.4.0-0.43smp #1 SMP Mon
Dec 4 18:37:06 EST 2000 ia64 unknown

Platform: Intel® Itanium®

OS: Red Hat Enterprise Linux 3.0, 4.0

FLEXnet
Licensing
Platform name: it64_re3

Built with: cc: /usr/bin/gcc -DLINUX -DLINUX64 -D_USE_BIG_FDS

Notes: uname -a: Linux sysxxx 2.4.0-0.43smp #1 SMP Mon
Dec 4 18:37:06 EST 2000 ia64 unknown

Platform: Intel® Xeon™
AMD Opteron™

OS: Red Hat Enterprise Linux 3.0, 4.0

FLEXnet
Licensing
Platform name: amd64_re3

Built with: cc: /usr/bin/gcc -DLINUX -DLINUX64 -DRHLINUX64
-DREL -DAMD64

Notes: uname -a: Linux sysxxx 2.4.21-4.ELsmp #1 SMP Fri Oct 3
17:32:58 EDT 2003 x86_64 x86_64 x86_64 GNU/Linux

Platform: PowerPC™

OS: Red Hat Enterprise Linux 3.0, 4.0

FLEXnet
Licensing
Platform name: ppc64_re3

Built with: `cc: /usr/bin/gcc -DLINUX -DLINUX64 -DRHLINUX64 -DREL
-DAMD64 -DLM_PLATFORM_BIT2=PLAT_ppc64_re`

Notes: `uname -a: Linux sysxxx 2.4.21-20.EL #1 SMP Wed Aug 18
20:31:16 EDT 2004 ppc64 ppc64 ppc64 GNU/Linux`

SCO® OPENSERVR™ 32-BIT

Platform: x86

OS: OpenServer 5.0.6

FLEXnet
Licensing Platform
name: sco_u3

Built with:

- `cc: /bin/cc -DSCO -DSCO`
- `link: /bin/cc -lsocket`

Notes:

- `uname -a: SCO_SV sysxxx 3.2 5.0.6 i386`
- Multi-threaded heartbeats not supported.

SCO® UNIXWARE® 32-BIT

Platform: x86

OS: UnixWare 3.2 to 6.0

FLEXnet
Licensing Platform
name: i86_u7

Built with:

- `cc: /bin/cc -DSCO -DSCO -DSCO5`
- `link: /bin/cc -lsocket`

Notes:

- `uname -a: UnixWare sysxxx 5 7 i386 x86at SCO UNIX_SVR5`
- Multi-threaded heartbeats not supported.

SOLARIS™ 32-BIT

Platform: x86, Opteron

OS: Solaris 8, 9, and 10 for x86
Solaris 10 for Opteron

FLEXnet Licensing Platform name: x86_sol8

Built with: cc: /bin/cc -DSUNOS5 -Dsun

Notes:

- `uname -a: SunOS sun8pc 5.8 Generic_108529-13 i86pc i386 i86pc`
- Multi-threaded heartbeats are not supported.

Platform: Sun 32-bit

OS: Solaris 7, 8, 9, and 10.

FLEXnet Licensing Platform name: sun4_u7

Built with:

- cc: /opt/SUNWspro/SC5.0/bin/cc -DSUNOS5 -DFD_SETSIZE=65535
- link: /opt/SUNWspro/SC5.0/bin/cc -lsocket -lnsl \ -lintl -lpthread

Notes:

- `uname -a: SunOS ultra5 5.7 Generic_106541-17 sun4u sparc SUNW,Ultra-5_10`
- Supports synchronous I/O multiplexing, via `select()`, for up to 65535 file descriptors.

SOLARIS™ 64-BIT

Platform: Sun 64-bit

OS: Solaris 7, 8, 9, and 10.

FLEXnet Licensing Platform name: sun64_u5

Built with:

- cc: /usr/ucb/cc -DSUNOS5 -DSUN64 -xarch=v9
- link: /usr/ucb/cc -lsocket -lnsl -lintl -xarch=v9 -xildoff -lpthread

Notes:

- `uname -a: SunOS sysxxx 5.7 Generic_106541-02 sun4u sparc SUNW,Ultra-5_10`
- Older, 32-bit binaries run fine on this OS.

Platform: Intel® Xeon™
AMD Opteron™

OS: Solaris 10

FLEXnet
Licensing
Platform name: x64_sun10

Built with:

- cc: /usr/ucb/cc -DSUNOS5 -DSUN64 -DPLATFORM_X64_SUN -xarch=amd64
- link: /usr/ucb/cc -znocompstrtab -lsocket -lnsl -lintl -xarch=amd64 -xildoff

Notes: uname -a: SunOS xxxx 5.10 Generic i86pc i386 i86pc

SUSE® LINUX 32-BIT

Platform: AMD Opteron™
x86

OS: SuSE Linux Enterprise Server 8

FLEXnet
Licensing
Platform name: i86_s8

Built with: cc: /opt/gcc33/bin/gcc -m32 -DSUSE -DLINUX \
-D__FD_SETSIZE=65535 -DI686

Notes:

- uname -a: Linux sysxxx 2.4.19 #1
Mon Mar 31 23:47:50 UTC 2003 x86_64 unknown
- gcc version: gcc-33-3.3-43
- glibc version: glibc-2.2.5-173

SUSE® LINUX 64-BIT

Platform: AMD Opteron™

OS: SuSE Linux Enterprise Server 8

FLEXnet
Licensing
Platform name: amd64_s8

Built with: cc: /opt/gcc33/bin/gcc -n -DSUSE -DLINUX \
-D__FD_SETSIZE=65535 -DX6486

Notes:

- `uname -a: Linux sysxxx 2.4.19 #1
Mon Mar 31 23:47:50 UTC 2003 x86_64 unknown`
- gcc version: gcc-33-3.3-43
- glibc version: glibc-2.2.5-173

Platform: PowerPC™®

OS: SuSE Linux Enterprise Server 9

FLEXnet
Licensing
Platform name: ppc64_se9

Built with: `cc: /usr/bin/gcc -DSUSE -DLINUX
-D__FD_SETSIZE=65535 -DX6486
-DLM_PLATFORM_BIT2=PLAT_ppc64_se`

Notes:

- `uname -a: Linux sysxxx 2.6.5-7.97-pseries64 #1 SMP Fri
Jul 2 14:21:59 UTC 2004 ppc64 ppc64 ppc64 GNU/Linux`
- gcc version: gcc (GCC) 3.3.3 (SuSE Linux)

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