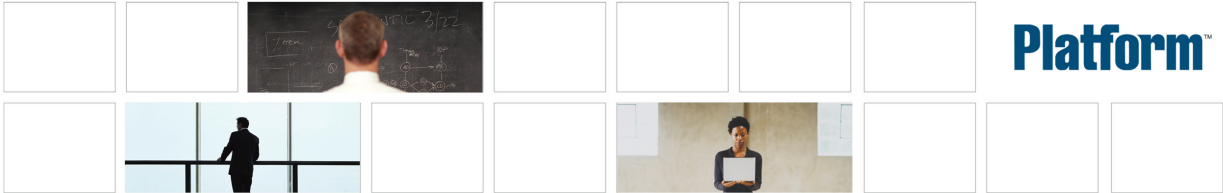

Release Notes

Platform Suite for SAS
Version 7
February 2008



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New features

Native encoding

- Additional support for native encoding in many job and flow fields such as job name, alarm type, and command line.

Job/job array submission script

- You can define and submit customized job / job array submission script with `bsub` command and options. You can also monitor and control the jobs and job arrays that have been submitted through the customized job submission scripts. The customized job submission script can be in the form of a shell script or a batch file, depending on the host that runs JFD.

Extended `bsub` options

- You can define jobs and job arrays in Flow Editor that use a configured LSF application profile and service level agreement.

Environment variables

- Now you can set environment variables on a per-flow basis, which allows multiple jobs/sub-flows within a flow to use the same variables.

Flow statistics

- You can now view relevant flow instance information summary in Flow Manager.

Global Variables

- You can add, edit, and remove global variables dynamically from the command line or Flow Manager.

History clean up

- From now on any history log files older than the specified time period is cleaned up by the Process Manager.

New features

Platform Suite for SAS

The Platform Suite for SAS consists of three Platform products: Platform Process Manager Version 7, Platform LSF Version 7 Update 2, and Platform Grid Management Services Version 7.0. All these products are required for SAS Grid Manager which includes both job scheduling and grid computing. Job scheduling only requires Platform Process Manager and Platform LSF

Licensing

Using Platform Suite for SAS requires a license. See <http://support.sas.com/faq/043/FAQ04360.html> for detailed steps on acquiring a license.

Windows

Windows x86 32-bit

PM

pm7_pinstall_sas_win32.exe

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (Windows)</i>	pm_install_windows.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_win32.msi

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Installing Platform LSF on Windows</i>	lsf_windows_install.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_usage.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Using Platform LSF on Windows</i>	lsf_windows_usage.pdf
<i>Migrating Your Windows Cluster to Platform LSF Version 7</i>	lsf_migrate_windows_to_lsf7.pdf
<i>Standalone doc for Interactive Logon</i>	lsf_interactive_logon.pdf

GMS

lsf7.0_gms_w2k.exe

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Windows Itanium 64-bit

PM

pm7_pinstall_sas_win-ia64.exe

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (Windows)</i>	pm_install_windows.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_win-ia64.msi

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Installing Platform LSF on Windows</i>	lsf_windows_install.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Using Platform LSF on Windows</i>	lsf_windows_using.pdf
<i>Migrating Your Windows Cluster to Platform LSF Version 7</i>	lsf_migrate_windows_to_lsf7.pdf
<i>Standalone doc for Interactive Logon</i>	lsf_interactive_logon.pdf

GMS

lsf7.0_gms_w2k.exe

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Windows x86_64 64-bit

PM

pm7_pinstall_sas_win-x64.exe

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (Windows)</i>	pm_install_windows.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_win-x64.msi

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<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Using Platform LSF on Windows</i>	lsf_windows_using.pdf
<i>Migrating Your Windows Cluster to Platform LSF Version 7</i>	lsf_migrate_windows_to_lsf7.pdf
<i>Standalone doc for Interactive Logon</i>	lsf_interactive_logon.pdf

GMS

lsf7.0_gms_w2k.exe

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Solaris

Solaris 7,8, 9 Sparc 64-bit

PM

pm7_sas_sparc-sol7-64.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_sparc-sol7-64.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_sparc-sol7-64.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Solaris 10 Sparc 64-bit PM

pm7_sas_sparc-sol10-64.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_sparc-sol10-64.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_sparc-sol10-64.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Solaris 10 x86-64 64-bit PM

pm7_sas_x86-64-sol10.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_x86-64-sol10.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_usage.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_x86-64-sol10.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

AIX

AIX 5,6 64-bit

PM

pm7_sas_aix5-64.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_aix5-64.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_aix5-64.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

LINUX

Linux-x86 32-bit

PM

pm7_sas_linux2.6-glibc2.3-x86.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_linux2.6-glibc2.3-x86.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_linux2.4-glibc2.3-x86.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Linux-x86_64 64-bit

PM

pm7_sas_linux2.6-glibc2.3-x86_64.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_linux2.6-glibc2.3-x86_64.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_linux2.4-glibc2.2-x86_64.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

HP

HP IA64 64-bit

PM

pm7_sas_hpuxia64.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_hppa11i-64.tar.Z

Documentation	File Name
<i>Platform LSF Command Reference</i>	lsf_command_ref.pdf
<i>Administering Platform LSF</i>	lsf_admin.pdf
<i>Platform LSF Configuration Reference</i>	lsf_config_ref.pdf
<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_hpuxia64.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

HP PA Risc 64-bit PM

pm7_sas_hppa11-64.tar

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf
<i>Release Notes</i>	release_notes.pdf
<i>ARM Instrumentations</i>	arm_instrumentation.pdf

LSF

lsf7Update2_lsinstall.tar.Z

lsf7Update2_hppa11i-64.tar.Z

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<i>Running Jobs with Platform LSF</i>	lsf_using.pdf
<i>Platform LSF Quick Reference</i>	lsf_quick_reference.pdf
<i>Installing Platform LSF on UNIX and Linux</i>	lsf_unix_install.pdf
<i>Upgrading Platform LSF on UNIX and Linux</i>	lsf_upgrade_unix.pdf

GMS

lsf7.0_gms_install.tar.Z

lsf7.0_gms_hppa11.tar.Z

Documentation	File Name
<i>README for Platform Grid Management Service</i>	README.gms

Known Issues

Process Manager 7 has the following known issues:

- When a user variable is used in a job definition's Name field, the value of the variable must be set when the flow is triggered. Otherwise the flow will fail to be triggered. For example, in Flow Manager, you may choose "Trigger" => "With Variables", or on command line use "jtrigger -v variable_list ...".
- Applies to Linux hosts when JS_TIME_ZONE is set to "client", the default. During Daylight Savings Time (in the March-November time period), some time events may trigger an hour early. This occurs when Java gets the wrong timezone information from the client machine. Solution: On the (Linux) client, edit the file `/etc/sysconfig/clock` and replace `TIMEZONE=zone` with `ZONE=zone`. For example, `ZONE="US/Eastern"`.
- The SGI IRIX 6.5.24 platform does not support the new Daylight Savings Time dates (that changed in 2007) when JS_TIME_ZONE is set to "client" (the default). Time-based scheduling is affected.
- On Linux Redhat 7.0, due to a known java problem, scripts that run Process Manager commands and then monitor for exit code will never see an exit code 1 when it occurs—they see an exit code of 0.
- On HP, the failover feature does not work with a permanent license. Use a demo license.
- A Misschedule exception is not propagated through two consecutive link events in a flow.
- When using the Flow Editor or Flow Manager, and viewing or changing a job or job array definition, the entire job or job array definition dialog cannot be viewed if you are using a screen resolution lower than 1024 x 768. We recommend you set your resolution to 1024 x 768 or higher when using the Process Manager graphical user interface.
- When launching the graphical interfaces (Flow Editor, Calendar Editor and Flow Manager) on some UNIX systems, the user receives font not found warnings. The Java Virtual Machine user interface manager automatically determines which fonts are used on each machine. If the fonts are not available on the machine, the warning is issued. These warning messages do not affect the operation of the client.
- Process Manager does not validate the end date of a calendar expression. Consequently, if you define an end date prior to the start date, you receive no error message, but the calendar cannot be used in a time event to successfully trigger a flow or job.
- If you kill a job from the Flow Manager, the job state does not automatically refresh to reflect the change—you need to refresh manually, unless real-time status updates are being used.
- In the Flow Editor, on the Job Definition tabs, the Reset button only resets data on the current tab—it does not affect the hidden tabs. Values specified in the following fields do not reset at all when you click the Reset button:
 - Submit to queue/partition(s)—General tab
 - User name—General tab
 - Host requirements fields—Processing tab
- Some days of the week are not completely shown in the Calendar Editor for some platforms:

Known Issues

- On Solaris: Mon, Wed, Thu are shown as M..., W..., T...
- On HP: Mon, Wed are shown as M..., W...
- On SGI: Sun, Mon, Wed are shown as S..., M..., W...
- Some historical information is not logged correctly in the following circumstances:
 - If a job or other activity has a rerun exception handler that is triggered, no information about the exit code of the job is logged.
 - When user variables are used for file transfer names, the resolved name of the file is not logged.
- When using the `j sub - r` command to submit and replace a flow definition, if the `j sub` command fails, the replacement does not occur, but the replaced flow definition is already deleted and cannot be restored.
- In the Flow Manager, it is possible for the user to have two different flows selected in the tree view and the right-hand pane. If the user selects an option in the Action menu, such as Kill, it is the flow selected in the tree view that is killed, not the one in the right-hand pane. This may not be the behavior the user expects.
- Process Manager does not support duplicate event logging in LSF. The `lsb.events` file must be in a shared location where the Process Manager server can locate job information.
- If a job using a rerun exception handler has a rerun delay specified, and the Process Manager restarts during the delay period (prior to rerunning the job), the job is never rerun.
- If a user tries to open the job dependency definition on the arrow coming out of the job with the variable in the job name field, the user sees an empty message dialog, prior to seeing the dependency definition. The user can click OK, to see the definition. However, the job name field is blank.
- If a job command (command itself, not parameters) contains space and if the job is submitted to a queue with a job starter, the command doesn't work.
- in `xlsadmin`, some menu items under Manage may be disabled after operating shutdown or close actions against LSF daemons.
- In `xlsadmin`, lock/unlock LIM and start/stop service only has effect on the LIM that locates on the host where `xlsadmin` is started.
- in `xlsadmin`, some menu items under Manage may be disabled when `LSF_EGO_DAEMON_CONTROL="Y"` is set in `lsf.conf`.

Effect of daylight savings time on flows

There are some known issues when running flows scheduled during and around the change to and from daylight savings time.

When...	Flow runs...	Expected behavior
A flow is scheduled to run between 2 a.m and 3 a.m. on the day daylight savings time begins (the second Sunday in March)	Never	This hour is the hour that is removed to start daylight savings time in North America. No flows run. Any subflows that are scheduled to start after this flow runs also will not run.
The client and server hosts have their time changed at different times: <ul style="list-style-type: none">• Client before job submission, server after• Server before job submission, client after	At the time defined by the client.	The server receives the time from the client at the time of job submission and does any calculations in time difference between server and client at that time. This applies on when <code>JS_TIME_ZONE</code> is set to client (the default). Server time is applied if <code>JS_TIME_ZONE</code> is changed to server.

When...	Flow runs...	Expected behavior
You schedule the flow before the time change to run after the time change	At the time you scheduled (the correct time)	There is no impact. The flow is scheduled to run at 3 a.m. and it runs at 3 a.m., even after the time change.

Known Issues

Technical Support

World Wide Web and FTP

The latest information about all other supported releases of Process Manager is available on the Platform Web site at www.platform.com.

If you have problems accessing the Platform Web site or the Platform FTP site, send email to support@platform.com.

Getting Technical Support

Should you encounter problems or have questions regarding the use of LSF and scheduling jobs from SAS Management Console, please contact SAS directly. You can use one of the following methods to contact the SAS Technical Support staff.

1. Online problem/question submission:

<http://support.sas.com/ctx/supportform/index.jsp>

Choose Platform Suite for SAS as the 'Product' value.

2. E-mail problem/question submission via EMITS facility:

<http://support.sas.com/techsup/contact/emits.html>

Choose Platform Suite for SAS as the 'Product' value.

3. Telephone Support Information for North America:

http://support.sas.com/techsup/contact/telephone_support.html

4. If you are not based in North America, use the links in the following URL for information on how to contact other SAS Technical Support offices around the world:

<http://support.sas.com/techsup/contact/index.html>

While any SAS software user may contact Technical Support, priority is given to designated SAS support personnel at your site. (Note, you can use web-based forms to find out who the SAS support personnel are at your site or re-designate SAS support personnel at your site using links from this URL:

<http://support.sas.com/techsup/contact/index.html>

5. For samples and SAS Notes, use the following URL:

<http://support.sas.com/kb/?ct=51000&col=supprd>

