Executive Summary

Up.time currently reports all java processes as simply java in the process list. This agent modification will allow the agent on machines that are equipped with Java servers to parse through a list of server processes and names and append that to the information being sent to the up.time monitoring station.

Display Process Information										
Solaris Agent Stuff for Mediagrif (10.1.1.37) – Process Information – displaying latest sample dated 2008-07-23 12:56:33										
Process	PID	PPID	UID	GID	Memory Used	RSS	CPU %	Mem %	Runtime	Children Runtime	Start Time
java-KENNETHTEST	22463	16026	uptime	other	372.07 MB	241.55 MB	0.27	3.02	6 days 14h	2h 40m	2008-04-17 17:41:00
inetd	16533	16026	root	root	12.41 MB	7.81 MB	0.16	0.09	14h 51m	1 day 11h	2008-04-17 17:21:00
svc.configd	16057	16026	root	root	9.99 MB	5.94 MB	0.1	0.07	9h 9m	0s	2008-04-17 17:21:00
mysqld-TEST2	21723	21682	uptime	other	209.34 MB	190.88 MB	0.01	2.38	5h 43m	0s	2008-04-17 17:40:00
psinfo_core	8208	8206	root	root	2.84 MB	2.20 MB	0.01	0.02	0s	0s	2008-07-23 12:44:00
bash	8206	8205	root	root	4.08 MB	2.59 MB	0	0.03	0s	0s	2008-07-23 12:44:00

Because on certain platforms the packaged standard uptime psinfo directive is a binary file, this solution utilizes a script wrapper to ensure that the correct translation of java process names occur.

Prerequisites

You must be using a POSIX based version of the uptime agent on the target host.

Installation Target

This modified agent is only required on servers where you wish to be able to establish unique java process id's within the up.time monitoring tool.

Package Installation

Included in the file package delivered with this document is a file called psinfo. To install this package copy the files to the uptime agent binaries folder by performing the following steps.

Assuming the agent installation folder is /opt/uptime-agent/

1. Copy the existing psinfo script to a file called psinfo_core in the bin folder (i.e /opt/uptime-agent/bin)
2. Copy the new package in the attached archive into the bin folder so that it now is in the same folder as the copied psinfo_core
3. Change the owner of psinfo to nobody and the file permissions to be sufficient to execute the script
4. Validate all paths in the psinfo wrapper script that point to /opt/uptime-agent/tmp and /opt/uptime-agent/bin are valid based on your installation paths.
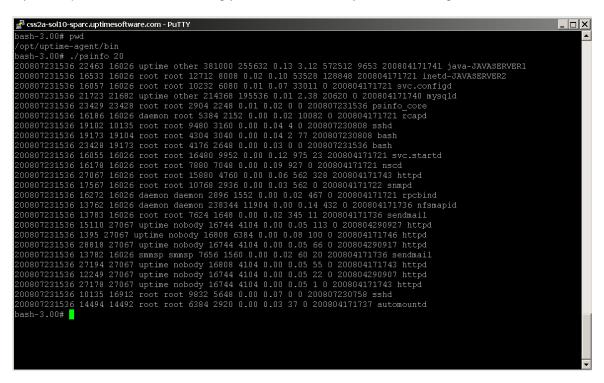
You are now ready to proceed to validation.

Package Validation

To verify that the package has been delivered successfully execute the following on the shell in the folder /opt/uptime-agent/bin

./psinfo 20

If your output looks like the following you have successfully installed the agent modification

```
bash-3.00# pwd
/opt/uptime-agent/bin
bash-3.00# ./psinfo 20
200807231536 22463 16026 uptime other 381000 255632 0.13 3.12 572512 9653 200804171741 java-JAVASERVER1
200807231536 16533 16026 root root 12712 8008 0.02 0.10 53528 128848 200804171721 inetd-JAVASERVER2
200807231536 16057 16026 root root 10232 6080 0.01 0.07 33011 0 200804171721 svc.configd
200807231536 21723 21682 uptime other 214368 195536 0.01 2.38 20620 0 200804171740 mysqld
200807231536 23429 23428 root root 2904 2248 0.01 0.02 0 0 200807231536 psinfo_core
200807231536 16186 16026 daemon root 5384 2152 0.00 0.02 10082 0 200804171721 rcapd
200807231536 19102 10135 root root 9480 3160 0.00 0.04 4 0 200807230808 sshd
200807231536 19173 19104 root root 4304 3040 0.00 0.04 2 77 200807230808 bash
200807231536 23428 19173 root root 4176 2648 0.00 0.03 0 0 200807231536 bash
200807231536 16055 16026 root root 16480 9952 0.00 0.12 975 23 200804171721 svc.startd
200807231536 16178 16026 root root 7880 7048 0.00 0.09 927 0 200804171721 nscd
200807231536 27067 16026 root root 15880 4760 0.00 0.06 562 328 200804171743 httpd
200807231536 17567 16026 root root 10768 2936 0.00 0.03 562 0 200804171722 snmpd
200807231536 16272 16026 daemon daemon 2896 1552 0.00 0.02 467 0 200804171721 rpcbind
200807231536 13762 16026 daemon daemon 238344 11904 0.00 0.14 432 0 200804171736 nfsmapid
200807231536 13783 16026 root root 7624 1648 0.00 0.02 345 11 200804171736 sendmail
200807231536 15110 27067 uptime nobody 16744 4104 0.00 0.05 113 0 200804290927 httpd
200807231536 1395 27067 uptime nobody 16808 6384 0.00 0.08 100 0 200804171746 httpd
200807231536 28818 27067 uptime nobody 16744 4104 0.00 0.05 66 0 200804290917 httpd
200807231536 13782 16026 smmsp smmsp 7656 1560 0.00 0.02 60 20 200804171736 sendmail
200807231536 27194 27067 uptime nobody 16808 4104 0.00 0.05 55 0 200804171743 httpd
200807231536 12249 27067 uptime nobody 16744 4104 0.00 0.05 22 0 200804290907 httpd
200807231536 27178 27067 uptime nobody 16744 4104 0.00 0.05 1 0 200804171743 httpd
200807231536 10135 16912 root root 9832 5648 0.00 0.07 0 0 200807230758 sshd
200807231536 14494 14492 root root 6384 2920 0.00 0.03 37 0 200804171737 automountd
bash-3.00#
```

Troubleshooting

1. Validate where the problem is – in the included file archive there is a file called javaid.txt place this in the tmp directory in the agent folder i.e /opt/uptime-agent/tmp
   a. Comment out the line in the file psinfo
   b. Re-test the script using the steps in the validation section of this document.
      If the script executes, then this validates that there is a problem with the script that generates the javaid.txt file. Please refer to the included javaid.txt file and ensure that the script in psinfo is correct for generating the corresponding file output for java pids on the target servers.

      The script in question is the following line in psinfo:

```
for fn in  /home/*/servers/*pid /home/*/tsc/.*pid; do sn=`basename $fn | sed -e
\'s/^\.//;s/\.pid$//\'`; echo `cat $fn ` $sn; done > /opt/uptime-agent/tmp/javaid.txt
```

Change Log

Contributor	Date	Description
Kenneth Cheung	07.23.2008	Creation/Review
Joel Pereira	06.21.2011	Update/Clean