

Chapter 59

DTD for System Process Response Tags

This chapter contains the Extensible Markup Language (XML) document type definition (DTD) called `junos-process.dtd`, which lists the JUNOS XML tags that contain information about system processes (the information returned by the `show system processes` command-line interface [CLI] command). The associated XML namespace is `http://xml.juniper.net/junos/9.3R1/junos-process`. To review reference pages for the tags, see Summary of System Process Response Tags on page 1565.

```
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```

```
<!-- All rights reserved. -->
```

```
<!-- junos-process.dtd -->
```

```
<!ELEMENT address (#PCDATA)>
```

```
<!ELEMENT advisory-lock EMPTY>
```

```
<!ELEMENT alias (#PCDATA)>
```

```
<!ELEMENT argument (#PCDATA)>
```

```
<!ELEMENT argument-index (#PCDATA)>
```

```
<!ELEMENT block-input-operation (#PCDATA)>
```

```
<!ELEMENT block-output-operation (#PCDATA)>
```

```
<!ELEMENT command (#PCDATA)>
```

```
<!ELEMENT command-line-argument (argument-index | argument)*>
```

```
<!ELEMENT command-line-argument-list (command-line-argument)*>
```

```
<!ELEMENT controlling-terminal EMPTY>
```

```
<!ELEMENT cpu-idle-time (#PCDATA)>
```

```
<!ELEMENT cpu-idle-time-percent (#PCDATA)>
```

```
<!ELEMENT cpu-interrupts-time (#PCDATA)>
```

```
<!ELEMENT cpu-interrupts-time-percent (#PCDATA)>
```

```
<!ELEMENT cpu-load (#PCDATA)>
```

```

<!ELEMENT cpu-nice-time (#PCDATA)>
<!ELEMENT cpu-nice-time-percent (#PCDATA)>
<!ELEMENT cpu-system-time (#PCDATA)>
<!ELEMENT cpu-system-time-percent (#PCDATA)>
<!ELEMENT cpu-total-time (#PCDATA)>
<!ELEMENT cpu-user-time (#PCDATA)>
<!ELEMENT cpu-user-time-percent (#PCDATA)>
<!ELEMENT data-size (#PCDATA)>
<!--ATTLIST data-size junos:pages CDATA #IMPLIED-->
<!ELEMENT debug-trace EMPTY>
<!ELEMENT debug-wait EMPTY>
<!ELEMENT exec EMPTY>
<!ELEMENT exiting EMPTY>
<!ELEMENT external-identifier (#PCDATA)>
<!ELEMENT in-memory EMPTY>
<!ELEMENT interruptible EMPTY>
<!ELEMENT involuntary-context-switch (#PCDATA)>
<!ELEMENT load-average-fifteen-minute (#PCDATA)>
<!ELEMENT load-average-five-minute (#PCDATA)>
<!ELEMENT load-average-one-minute (#PCDATA)>
<!ELEMENT login-id (#PCDATA)>
<!ELEMENT maximum-resident-set (#PCDATA)>
<!ELEMENT memory-load (#PCDATA)>
<!ELEMENT memory-page-size (#PCDATA)>
<!--ELEMENT memory-statistics (memory-load | virtual-size | resident-set-size |
resident-set-before-swap | text-size | data-size | stack-size)*-->
<!ELEMENT messages-received (#PCDATA)>
<!ELEMENT messages-sent (#PCDATA)>
<!ELEMENT name (#PCDATA)>

```

```

<!ELEMENT nice (#PCDATA)>

<!ELEMENT page-faults (#PCDATA)>

<!ELEMENT page-reclaims (#PCDATA)>

<!ELEMENT parent-process-id (#PCDATA)>

<!ELEMENT physical-memory-pages (#PCDATA)>

<!ELEMENT primary-instance EMPTY>

<!ELEMENT priority (#PCDATA)>

<!ELEMENT process (process-id | name | alias | external-identifier | primary-instance |
login-id | start-time | parent-process-id | process-group-id | command |
command-line-argument-list | terminal-device | priority | nice | process-status |
process-flags | sleep-information | resource-usage | memory-statistics)*>

<!ELEMENT process-flags (interruptible | advisory-lock | controlling-terminal | in-memory
| wait-child | profiling | select | set-id-privileges | system-process | timing-out |
debug-trace | debug-wait | exiting | exec)*>

<!ELEMENT process-group-id (#PCDATA)>

<!ELEMENT process-id (#PCDATA)>

<!ELEMENT process-information (scale-information | process | system-information)*>

<!ELEMENT process-run (#PCDATA)>

<!ELEMENT process-sleep (#PCDATA)>

<!ELEMENT process-start (#PCDATA)>

<!ELEMENT process-status (#PCDATA)>

<!ELEMENT process-stop (#PCDATA)>

<!ELEMENT process-total (#PCDATA)>

<!ELEMENT process-zombie (#PCDATA)>

<!ELEMENT profiling EMPTY>

<!ELEMENT reason (#PCDATA)>

<!ELEMENT resident-set-before-swap (#PCDATA)>
<ATTLIST resident-set-before-swap junos:pages CDATA #IMPLIED>

<!ELEMENT resident-set-size (#PCDATA)>
<ATTLIST resident-set-size junos:pages CDATA #IMPLIED>

<!ELEMENT resource-usage (cpu-load | user-time | system-time | maximum-resident-set
| page-reclaims | page-faults | swaps | block-input-operation | block-output-operation |
messages-sent | messages-received | signals | voluntary-context-switch |
involuntary-context-switch)*>

```

```
<!ELEMENT scale-information (memory-page-size | physical-memory-pages)*>

<!ELEMENT select EMPTY>

<!ELEMENT set-id-privileges EMPTY>

<!ELEMENT signals (#PCDATA)>

<!ELEMENT sleep-information (reason | address)*>

<!ELEMENT stack-size (#PCDATA)>
<ATTLIST stack-size junos:pages CDATA #IMPLIED>

<!ELEMENT start-time (#PCDATA)>
<ATTLIST start-time junos:seconds CDATA #IMPLIED>

<!ELEMENT swaps (#PCDATA)>

<!ELEMENT system-boot-device (#PCDATA)>

<!ELEMENT system-boot-next-device (#PCDATA)>

<!ELEMENT system-cpu-states (cpu-total-time | cpu-user-time | cpu-user-time-percent |
cpu-nice-time | cpu-nice-time-percent | cpu-system-time | cpu-system-time-percent |
cpu-interrupts-time | cpu-interrupts-time-percent | cpu-idle-time |
cpu-idle-time-percent)*>

<!ELEMENT system-hardware-cpu-architecture (#PCDATA)>

<!ELEMENT system-hardware-cpu-count (#PCDATA)>

<!ELEMENT system-hardware-cpu-model (#PCDATA)>

<!ELEMENT system-hardware-page-available (#PCDATA)>

<!ELEMENT system-hardware-page-size (#PCDATA)>

<!ELEMENT system-hardware-physical-memory (#PCDATA)>

<!ELEMENT system-hardware-routing-engine-model (#PCDATA)>

<!ELEMENT system-hardware-routing-engine-name (#PCDATA)>

<!ELEMENT system-hardware-routing-engine-other-alive EMPTY>

<!ELEMENT system-hardware-routing-engine-other-present EMPTY>

<!ELEMENT system-hardware-routing-engine-serial-number (#PCDATA)>

<!ELEMENT system-hardware-user-memory (#PCDATA)>
```

```

<!ELEMENT system-information (system-hardware-cpu-architecture |
system-hardware-cpu-model | system-hardware-cpu-count | system-boot-device |
system-boot-next-device | system-hardware-physical-memory |
system-hardware-user-memory | system-hardware-page-size |
system-virtual-memory-page-size | system-hardware-page-available |
system-hardware-routing-engine-name | system-hardware-routing-engine-model |
system-hardware-routing-engine-serial-number |
system-hardware-routing-engine-other-present |
system-hardware-routing-engine-other-alive | system-virtual-memory-swap-enabled |
system-virtual-memory-context-switches | system-virtual-memory-trap |
system-virtual-memory-syscall | system-virtual-memory-hard-interrupts |
system-virtual-memory-soft-interrupts | system-virtual-memory-faults |
system-virtual-memory-copy-on-write-faults |
system-virtual-memory-copy-on-write-optimized | system-virtual-memory-zeroed-pages |
system-virtual-memory-zeroed-pages-optimized | system-virtual-memory-swapin |
system-virtual-memory-swapon | system-virtual-memory-swapped-in-pages |
system-virtual-memory-swapped-out-pages | system-virtual-memory-reactivated-pages |
system-virtual-memory-vnode-in | system-virtual-memory-vnode-out |
system-virtual-memory-vnode-page-ins | system-virtual-memory-vnode-page-outs |
system-virtual-memory-pager-wakes | system-virtual-memory-pager-scans |
system-virtual-memory-page-count | system-virtual-memory-free-reserved |
system-virtual-memory-free-minimum | system-virtual-memory-free-pages |
system-virtual-memory-wired-pages | system-virtual-memory-active-pages |
system-virtual-memory-cache-pages | system-virtual-memory-cache-pages-minimum |
system-virtual-memory-cache-pages-maximum | system-virtual-memory-load-averages |
system-last-pid | system-process-counts | system-cpu-states)*>

```

```

<!ELEMENT system-last-pid (#PCDATA)>

```

```

<!ELEMENT system-process EMPTY>

```

```

<!ELEMENT system-process-counts (process-total | process-run | process-sleep |
process-start | process-stop | process-zombie)*>

```

```

<!ELEMENT system-time (#PCDATA)>

```

```

<!ATTLIST system-time junos:seconds CDATA #IMPLIED>

```

```

<!ATTLIST system-time junos:microseconds CDATA #IMPLIED>

```

```

<!ELEMENT system-virtual-memory-active-pages (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-cache-pages (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-cache-pages-maximum (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-cache-pages-minimum (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-context-switches (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-copy-on-write-faults (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-copy-on-write-optimized (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-faults (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-free-minimum (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-free-pages (#PCDATA)>

```

```

<!ELEMENT system-virtual-memory-free-reserved (#PCDATA)>

<!ELEMENT system-virtual-memory-hard-interrupts (#PCDATA)>

<!ELEMENT system-virtual-memory-load-averages (load-average-one-minute |
load-average-five-minute | load-average-fifteen-minute)*>

<!ELEMENT system-virtual-memory-page-count (#PCDATA)>

<!ELEMENT system-virtual-memory-page-size (#PCDATA)>

<!ELEMENT system-virtual-memory-pager-scans (#PCDATA)>

<!ELEMENT system-virtual-memory-pager-wakes (#PCDATA)>

<!ELEMENT system-virtual-memory-reactivated-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-soft-interrupts (#PCDATA)>

<!ELEMENT system-virtual-memory-swap-enabled EMPTY>

<!ELEMENT system-virtual-memory-swapin (#PCDATA)>

<!ELEMENT system-virtual-memory-swapout (#PCDATA)>

<!ELEMENT system-virtual-memory-swapped-in-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-swapped-out-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-syscall (#PCDATA)>

<!ELEMENT system-virtual-memory-trap (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-in (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-out (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-page-ins (#PCDATA)>

<!ELEMENT system-virtual-memory-vnode-page-outs (#PCDATA)>

<!ELEMENT system-virtual-memory-wired-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-zeroed-pages (#PCDATA)>

<!ELEMENT system-virtual-memory-zeroed-pages-optimized (#PCDATA)>

<!ELEMENT terminal-device (#PCDATA)>

<!ELEMENT text-size (#PCDATA)>
<!ATTLIST text-size junos:pages CDATA #IMPLIED>

<!ELEMENT timing-out EMPTY>

<!ELEMENT user-time (#PCDATA)>
<!ATTLIST user-time junos:seconds CDATA #IMPLIED>

```

<!ATTLIST user-time junos:microseconds CDATA #IMPLIED>

<!ELEMENT virtual-size (#PCDATA)>

<!ELEMENT voluntary-context-switch (#PCDATA)>

<!ELEMENT wait-child EMPTY>

