

DSM Server Crashes When User Filters Are Used at Any Destination

This technical note addresses the problem of a Destination Manager (DSM) server crashing when concurrent user filters are set at any destination. This note also provides a workaround for this problem.

Platform affected

HP-UX 11.23 IA64

Problem

The `user-filter-program`, `user-filter-arguments`, and `uses-stdattr` attributes are set for the concurrent user filter program to function. When these user filters are set at any destinations, the DSM server generates a core dump. This happens because the server attempts to allocate more memory than allowed by the specified thread stack size for the DSM server threads leading to a crash.

Solution

You can prevent the DSM server from crashing by increasing the thread stack size for each of the DSM servers, using the `config_server` command.

To increase the thread stack size, do the following:

1. Execute the `list_server` command to see the existing `-server-executable-options` list.

The list appears as follows:

```
-server-executable-options:  
-n dsm,  
-l dazel,  
-r /eng2/installs/hpom/var/jobdb,  
-m 2
```

2. Increase the thread stack size for the DSM server from the default size of 64k to the recommended thread stack size 128k by using the following:

```
config_server -u -x"-+server-executable-options \"-s 128\"" <dsm_name>
```

3. Restart the DSM server for which the thread stack size has been increased.

Conclusion

4. Execute the `list_server` command to ensure that the stack size is set appropriately.

The list now appears as follows:

```
-server-executable-options:  
-n dsm,  
-l dazel,  
-r /eng2/installs/hpom/var/jobdb,  
-m 2,  
-s 128,
```

Note that the thread stack size has increased.

Conclusion

The DSM server generates a core dump and crashes because the server attempts to allocate more memory than allowed by the specified thread stack size for the DSM server threads. The crash can be prevented by increasing the thread stack size for each of the DSM servers.