

Re: [OpenVMS Alpha V7.3-2] Batch/Print Job Numbering

Source: <http://unix.derkeiler.com/Newsgroups/comp.os.vms/2006-02/msg01291.html>

- *From:* David J Dachtera <djesys.nospam@xxxxxxxxxxxx>
 - *Date:* Sun, 19 Feb 2006 16:01:53 -0600
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AEF wrote:

David J Dachtera wrote:

Peter 'EPLAN' LANGSTOEGER wrote:

In article <43F6A30C.BCF5B109@xxxxxxxxxxxx>, David J Dachtera <djesys.nospam@xxxxxxxxxxxx> writes:

you can see, that the same entry number is used more than once per day. And this is very annoying...

Anybody ? Hoff ?

Well, if I understand the issue, it sounds like you may be trying to track batch jobs by their entry number.

Not at all. I only have a lot of (equally named) logfiles and I need to find out why entry x failed (and hangs around retained on error). Searching with the entry number (and the date) is not enough because there are more than one entry number x per day. Thats all folks.

Well, SHOW ENTRY/FULL on a retained entry shows the time the job completed. So, DIRECTORY/MODIFIED using /SINCE and /BEFORE should be able to narrow it down:

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```
DJAS01::DDACHTERA$ dir/noprot/nosize/date=(cre,mod) login.com;
```

```
Directory DKA0:[DDACHTERA]
```

```
LOGIN.COM;1 3-SEP-1997 16:24:35.65 28-NOV-1998 21:25:44.81
```

Total of 1 file.

```
DJAS01::DDACHTERA$ dir/mod/sin="28-NOV-1998
21:25"/bef="28-NOV-1998
21:26" login
.com
```

```
Directory DKA0:[DDACHTERA]
```

```
LOGIN.COM;1 1/9 3-SEP-1997 16:24:35.65
(RWED,RWED,RE,)
```

Total of 1 file, 1/9 blocks.

Sorry, didn't have a queue entry handy to use as an example, but that's what I mean: bracket the target time using /SINCE and /BEFORE values with MODIFIED and less granular sample time for each qualifier should give you everything in that range.

That said, let me ask this: can you modify whatever SUBMITs the jobs?

If you can, try this:

```
$ SUBMIT/qualifier(s) filespec/HOLD
$ JENTRY = F$FAO( "!7ZL", '$ENTRY' )
$ SET ENTRY
'$ENTRY'/LOG=[ddcu:<dir>]filename_'JENTRY'.LOG/NOHOLD
```

That will produce fewer logs to sift through since you can then get a listing of every entry number used for that job in ascending order by entry number.

Personally, though, I agree with Michael: if the job is retained on error, that entry number won't be re-used so long as that queue remains retained.

That's not his problem. Imagine his queue numbers run from 1 to 1000. His system runs 3000 jobs one day. Now he has found that entry 442 has been retained on error. Now which of the 3 log files that contain 442 is the one that was retained in the queue??? Even though job 442 may be retained in the queue, that same number may have been used earlier in the day.

How many times has that entry number been re-used?

If the job's entry number:

```
$ enbr = F$GETQUI("DISPLAY_JOB","AFTER_TIME","THIS_JOB")
```

...is output to the log file, that will help narrow it down, but not pin-point the target log.

Interesting thing about /RETAIN: if a job is retained, even when a queue is set /RETAIN=ALWAYS, /DELETE of the log file doesn't take effect until the entry is itself is DELETED.

So, one other possible solution might be to SET the QUEUE /RETAIN=ERROR and specify a "null" queue as the default print destination for batch logs, then SUBMIT the jobs using /NOKEEP explicitly (to over-ride any defaults due to symbols, etc.). That way, the only batch logs that will remain on disk are those where the entry was retained due to the queue's current SETtings.

That narrows it down even further. SHOW ENTRY/FULL or the appropriate F\$GETQUI() calls to automate the task for an entry would then be useful to get down even closer to the target log using the completion time of the job and the RDTs of the log files on disk.

It would be most helpful, of course, if the queue manager would update the entry with the actual target filespec for the log file. Then again, given that there does not seem to be a way to retrieve that outside of a great deal of VMS "black magic", that may not even be possible right now. It would likely require considerable enhancement to LOGINOUT.EXE(?).

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<http://www.djesys.com/vms/market/>

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