

What is causing the journals to grow rapidly?

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What is causing the journals to grow rapidly?

Article



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· Aug 7, 2016



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What is causing the journals to grow rapidly?

Question:

My journal files are growing rapidly - what could be the cause? How can I minimize the phenomena?

Answer:

A good starting point for investigating the cause of journaling usage is the Journal Profile, as you would want to determine the culprit/s that is making the journal files grow rapidly.

Before discussing the Journal Profile, one other way for examining the Journals is simply looking at the journals' contents:

Looking at the file –

a. Via [the Mgmt. Portal](#):

Name	Size	Creation Time	Reason			
c:\intersystems\ensemble201310\mgr\journal\20130616.001	1024 KB	2013-06-16 13:28:34	<STARTUP>	View	Profile	Integrity Check
c:\intersystems\ensemble201310\mgr\journal\20130613.001	21 MB	2013-06-13 13:18:24	<STARTUP>	View	Profile	Integrity Check

View details of this journal file

b. Or [the ^JRNDUMP utility](#):

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```
%SYS>do ^JRNDUMP

      Journal              Directory & prefix

20130613.001              c:\intersystems\ensemble201310\mgr\journal\
> 20130616.001              c:\intersystems\ensemble201310\mgr\journal\

Pg(D)n, Pg(U)p, (N)ext, (P)rev, (G)oto, (E)xamine, (Q)uit => █
```

You can also get to this via the more general ^JOURNAL menu:

```
%SYS>do ^JOURNAL

 1) Begin Journaling (^JRNSTART)
 2) Stop Journaling (^JRNSTOP)
 3) Switch Journal File (^JRNSWTC)
 4) Restore Globals From Journal (^JRNRESTO)
 5) Display Journal File (^JRNDUMP)
 6) Purge Journal Files (PURGE^JOURNAL)
 7) Edit Journal Properties (^JRNOPTS)
 8) Activate or Deactivate Journal Encryption (ENCRYPT^JOURNAL())
 9) Display Journal status (Status^JOURNAL)
10) -not available-
11) -not available-
12) Journal catch-up for mirrored databases (MirrorCatchup^JRNRESTO)

Option? █
```

With this approach you'd need to browse through the journal "pages" and "get a feeling" for which global/s appear a lot.

A better way to do this then would be to use the Journal Profile utility:

Using the Journal Profile which provides a summary of the size of the file taken up by each global. Note the calculation on large files could take quite a while (be patient)... you'll get a report how much of the file it already calculated, for example:

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Running the Profile via [the Mgmt. Portal](#) –

Name	Size	Creation Time	Reason			
c:\intersystems\ensemble201310\mgr\journal\20130616.001	1024 KB	2013-06-16 13:28:34	<STARTUP>	View	Profile	Integrity Check
c:\intersystems\ensemble201310\mgr\journal\20130613.001	21 MB	2013-06-13 13:18:24	<STARTUP>	View	Profile	Integrity Check

View summary profile for this journal file

Eventually you'll get a report like this:

Journal Profile

Server: **Boo**
User: **_SY**

Journal file profile: c:\intersystems\ensemble201310\mgr\journal\20130613.
The following table shows a summary of the contents of the selected journal file

Sort by: Global **Size** Ready

Database	Global	Size
c:\intersystems\ensemble201310\mgr\ensemble\	^rMAP	4521724
c:\intersystems\ensemble201310\mgr\ensemble\	^ROUTINE	3908772
c:\intersystems\ensemble201310\mgr\ensemble\	^oddCOM	3812252
c:\intersystems\ensemble201310\mgr\ensemble\	^oddMAP	976772
c:\intersystems\ensemble201310\mgr\ensemble\	^oddDEF	482104
c:\intersystems\ensemble201310\mgr\ensemble\	^oddEXTR	397264
c:\intersystems\ensemble201310\mgr\ensemble\	^oddPROC	380156
c:\intersystems\ensemble201310\mgr\ensemble\	^oddSQL	191780
c:\intersystems\ensemble201310\mgr\ensemble\	^oddDEP	188120
c:\intersystems\ensemble201310\mgr\ensemble\	^rMACSAVE	176236
c:\intersystems\ensemble201310\mgr\ensemble\	^rMAC	167648
c:\intersystems\ensemble201310\mgr\ensemble\	^rINDEX	42732
c:\intersystems\ensemble201310\mgr\ensemble\	^oddTSQL	42076
c:\intersystems\ensemble201310\mgr\	^SYS	40860
c:\intersystems\ensemble201310\mgr\ensemble\	^rOBJ	27196
c:\intersystems\ensemble201310\mgr\ensemble\	^rINDEXCLASS	22284
c:\intersystems\ensemble201310\mgr\ensemble\	^oddEXT	21404

Once you have this information (and you can run the Profile on more than one file to get a better picture of this behavior over time), you can focus on the main globals causing the growth and investigate further why these

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specific globals are growing rapidly, is this the natural behavior, and how you could minimize it.

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