

Article

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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?

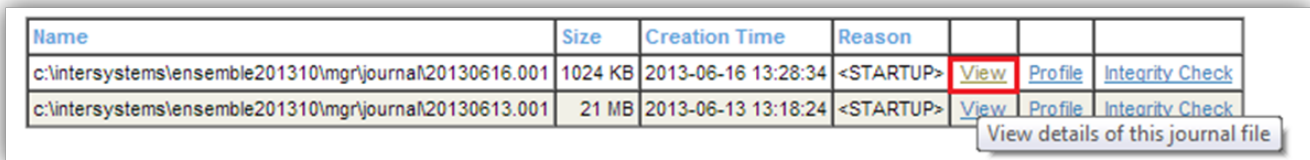
Answer:

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](#):

```
%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:

24.3% completed...

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
Recalculate
Cancel
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

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

[#Journaling](#) [#System Administration](#) [#Caché](#) [#InterSystems IRIS](#)

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