

IF Data Handling Client Tools (ifdhc) - Bug #7678

Broken art_sam_wrap.sh in 1_7_0

01/24/2015 11:41 PM - Dominick Rocco

Status:	Closed	Start date:	01/24/2015
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	3.00 hours
Target version:	v1_7_2	Spent time:	0.00 hour
Description			
<p>There are some apparent problems art_sam_wrap.sh in ifdhc 1_7_0. It seems that the input and outputs of at least two ifdh operations.</p> <p>I'm not sure if establishProcess ever actually caused a problem problem, but it seems safe to update the line in art_sam_wrap to pass an empty string: consumer_id=`IFDH_DEBUG= ifdh establishProcess "\$projurl" "\$appname" "\$ART_VERSION" "\$hostname" "\$GRID_USER" "art" "\$description" "\$limit" ""` The change is just the "" at the end.</p> <p>A real problem was induced by the was in the fetchInput line. art_sam_wrap seems to expect that the last line in stdout is the file name. It gets the file name like this: fname=`IFDH_DEBUG= ifdh fetchInput "\$suri" tail -1` For some reason, however, ifdh fetchInput no longer has newlines, all of the output comes out in one line.</p> <p>I've put in a hack to get around this: fname=`IFDH_DEBUG= ifdh fetchInput "\$suri" sed "s\\ \\n\\g" tail -1`</p> <p>But really, the whole thing could probably be made to be more robust.</p>			
Related issues:			
Related to cet-is - Support #7729: Requesting build of ifdhc v1_7_2 and corre...		Closed	01/29/2015

History

#1 - 01/26/2015 02:14 PM - Marc Mengel

Dominick,

While I haven't been able to reproduce the exact problem you describe, there is one issue that needs fixing in the art_sam_wrap.sh in v1_7_0 which we can easily work around -- it doesn't know how to find itself. It still has v1_2_10 as the version of itself to setup --

So if you get a chance, could you try it again, but pass:

```
--vers=v1_7_0 --quals=e6:s6:nu:debug
```

in the command line options to art_sam_wrap.sh, so it can find ifdh_art, etc.?

#2 - 01/27/2015 12:28 PM - Dominick Rocco

Hi Marc,

The issue has a typo, this is actually a problem in 1_7_1. Sorry for the error!

Dominick

#3 - 01/27/2015 05:10 PM - Marc Mengel

Actually, art_sam_wrap.sh is in ifdh_art, which is at version v1_7_0, and it is the one that needs the version and qualifiers of ifdh_art passed into it. So can we try with passing that in?

#4 - 01/27/2015 06:27 PM - Dominick Rocco

Hi Marc,

Ok, now I understand why I typed 1_7_0, I took it from "which art_sam_wrap.sh"

I can reproduce it with this script:

```
/nova/app/users/rocco/Production/hack_ifdhc_1_7_0/run_art_sam_wrap_from_ifdh_art.sh
```

It sets \$SAM_PROJECT_NAME, \$USER and \$CLUSTER to mimic the grid environment, then runs art_sam_wrap.sh.

Dominick

#5 - 01/28/2015 10:44 AM - Marc Mengel

- Status changed from New to Resolved

- Target version set to v1_7_2

- % Done changed from 0 to 90

- Estimated time set to 3.00 h

Okay, found it. Turns out I sent all the debug messages to stderr **except** for one, which on top of it doesn't end in a newline. Thus it gets smushed on the same line with the input file, depending on lock file output...

So it looks like this is a fix for v1_7_2, and we're going to have to drop v1_7_1.

#6 - 01/28/2015 11:01 AM - Marc Mengel

Hm... Maybe I should explain that more clearly:

earlier releases, with IFDH_DEBUG on, printed lots of messages to stdout, hence we needed to tail -1 the "ifdh fetchInput" output. The plan was in this release, to send all of that to stderr, and thus the tail -1 would be redundant and not needed.

However, I missed one message going to stdout, which on top of that didn't end in a newline; so while we used to print it, more debug output that did have a newline got printed after it, and the tail -1 thing still worked. Now however, all those other debug messages are going to stderr, so the output only has the newline-free debug message **and** then the filename on one line.

Second, the art_sam_wrap script is running ifdh fetchInput with IFDH_DEBUG= (that is blank) in an attempt to turn off debugging, but that didn't work because the code was just looking to see if IFDH_DEBUG was set at all, and a blank string still counted, so it was actually always turning the debug **ON**.

However the convolving factor was that CPN lock output was still going to stdout, so if you ran the art_sam_wrap script on files coming from bluearc, the LOCK output put a new line in the output stream and the whole thing worked again, so my tests of art_sam_wrap, which happened to get files from bluearc and thus the cpn LOCK output, worked. But when you pull from /pnfs, boom. you get no lock output and the debug message on the same line with the actual local file path.

So fixing these in [ac848f464](#) and [e79176d2](#)

#7 - 01/29/2015 11:15 AM - Marc Mengel

- Related to Support #7729: Requesting build of ifdhc v1_7_2 and corresponding ifdh_art added

#8 - 04/01/2015 03:28 PM - Dennis Box

- Status changed from Resolved to Closed

- % Done changed from 90 to 100