

Space recovery for /nfs/slac/g/net/pinger/ reclaiming

As reported by email from the PingER cronjob we ran out of space on /nfs/slac/g/net/pinger/ ([example](#)). This was confirmed as seen below, however there was space in the parent directory in pingerdata.unite.

```
207cottrell@pinger:~$df /nfs/slac/g/net/pinger
Filesystem            1K-blocks      Used Available Use% Mounted on
netfs03:/u2/g.net.pinger
                        845881344 837422080          0 100% /nfs/slac/g/net/pinger
206cottrell@pinger:~$df /nfs/slac/g/net/
Filesystem            1K-blocks      Used Available Use% Mounted on
/dev/mapper/VolGroup00-LogVol00
                        17001308 5586492  10551380  35% /
~$ls -l /nfs/slac/g/net/
total 1
drwxr-xr-x  2 root root    0 Dec  2 10:40 iepm-bw/
drwxrwsr-x 28 1049 iepm 1024 Jan 23  2014 pinger/
drwxr-xr-x  2 root root    0 Dec  2 10:40 pingerdata.unite/
```

Looking in more detail at:

```
$ls -l /nfs/slac/g/net/pinger/* > dir
ls: cannot open directory /nfs/slac/g/net/pinger/lost+found: Permission denied
Exit 2
```

Looking in [dir](#), it is apparent that apart from the directories:

pingerlod/, pingerreports/, pingerdata/, pinger_mon_data/, pinger2/, tulip/

most of this data is old and from earlier projects. Rather than lose it we decided to move this other data from

/nfs/slac/g/net/pinger to /nfs/slac/g/net/pingerdata.unite/

hence preserving a copy if we run into problems.

We copied and deleted:

```
/u2/g.net.pinger/hep#
/u2/g.net.pinger/hep--size
/u2/g.net.pinger/iepm-bw
/u2/g.net.pinger/shahryar
/u2/g.net.pinger/slac-gateways
/u2/g.net.pinger/traceroute
This saved about 15GBytes
then we deleted
bandwidth-tests
data
iepm-bw.slac.stanford.edu
monalisa
nan-backup
nettest2scratch
node2.slac.stanford.edu
pinger_mysql
sc2002
sc2003
sc2004

223cottrell@pinger:~$df /nfs/slac/g/net/pinger
Filesystem            1K-blocks      Used Available Use% Mounted on
netfs03:/u2/g.net.pinger
                        845881344 816465920  20956160  98% /nfs/slac/g/net/pinger
i.e. we saved ~ 44Gbytes total
```

More saving 3/11/2016

Once again we are receiving:

```

/bin/mv: closing `/nfs/slac/g/net/pinger/pingerreports/hep/minimum_rtt/minimum_rtt-1000-by-site-2016-03.txt.
gz': No space left on device
[cottrell@pinger ~]$ df /nfs/slac/g/net/pinger/pingerreports/hep/
Filesystem            1K-blocks      Used Available Use% Mounted on
netfs03:/u2/g.net.pinger
                        845881344 837422080      1024 100% /nfs/slac/g/net/pinger
[cottrell@pinger ~]$ df /nfs/slac/g/net/pinger
Filesystem            1K-blocks      Used Available Use% Mounted on
netfs03:/u2/g.net.pinger
                        845881344 837422080      1024 100% /nfs/slac/g/net/pinger

```

It appears there are old files in

```

[cottrell@pinger ~]$ ls -l /nfs/slac/g/net/pinger/pingerreports/
total 19
drwxrwsr-x 15 cottrell iepm    512 Oct 24  2009 --by/
drwxrwsr-x  2 cottrell iepm    512 Dec  5  2009 --date/
drwxrwsr-x 20 iepm      iepm 11264 Dec  4 17:21 hep/
drwxrwsr-x  2 pinger    iepm    512 Oct 25  2009 hep#/
drwxrwsr-x  2 pinger    iepm    512 Jul  7  2012 hep--size/
drwxr-sr-x 15 iepm      iepm    512 Jun 14  2005 hep-rest/
drwxr-sr-x  3 cottrell iepm    512 May 18  2006 hepc/
drwxr-sr-x 15 cottrell iepm    512 May 17  2006 heps/
drwxr-sr-x 16 pinger    iepm    512 Mar  8  2012 new/

```

We believe that all apart from hep/ are not needed. However before we delete we want to make a copy somewhere else just in case. So we need to mkdir man cpman cppingerreports/ and cp --by/, --date/, hhep--size, hep-rest, epc/, heps/, new/ from /nfs/slac/g/net/pinger/pingerreports/ to /nfs/slac/g/net/pingerdata.unite/pingerreports/. then we need to

Use cp -r -p -v to preserve the mode, ownership and timestamps, recursively copy directories and explain what is being done.

Since this will take a lot of time (day or so) you may want to try cp -r -p -v <from> <to> >! log& and use top and tail log to watch progress

Use rm -r -v to remove files that have been copied from /nfs/slac/g/net/pinger/pingerreports/new/

More saving 8/31/2016

We are receiving

```

Your "cron" job

/afs/slac/package/pinger/tulip/vtrace@chk.pl

produced the following output:

can't close tmp
file=/nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp.txt: No space left on
device at /afs/slac/package/pinger/tulip/vtrace@chk.pl line 168.

TRRun@pinger: Command exited with value 28

```

Looking at the space used, we see

```

311cottrell@pinger:~$df -h /nfs/slac/g/net/pinger
Filesystem            Size      Used Avail Use% Mounted on
netfs03:/u2/g.net.pinger
                        807G    799G      0 100% /nfs/slac/g/net/pinger

```

To find the space in each subdirectory of /nfs/slac/g/net/pinger, we use

```

307cottrell@pinger:/nfs/slac/g/net/pinger$du -sh *
du: cannot read directory `lost+found': Permission denied
1.0K    lost+found
2.7G    pinger2
3.0K    pinger_mon_data
607G    pingerdata
29G     pingerlod
53G     pingerreports
63M     tulip
Exit 1

```

pingerlod is no longer required, when/if it is restored we will move it to a new place

We used the following to copy the files and watch progress

```

270cottrell@pinger:~$mkdir /nfs/slac/g/net/pingerdata.unite/pingerlod
274cottrell@pinger:~$cp -r -p -v /nfs/slac/g/net/pinger/pingerlod /nfs/slac/g/net/pingerdata.unite/pingerlod >|
log&
[1] 32068
278cottrell@pinger:~$tail log
`/nfs/slac/g/net/pinger/pingerlod/Aduna_Data/openrdf-sesame/logs/main-2013-08-26.log' -> `/nfs/slac/g/net
/pingerdata.unite/pingerlod/pingerlod/Aduna_Data/openrdf-sesame/logs/main-2013-08-26.log'
279cottrell@pinger:~$wc log
105 316 20480
300cottrell@pinger:~$ps -efl | grep 32068
0 S cottrell 4837 17630 0 80 0 - 1107 - 15:48 pts/3 00:00:00 grep 32068
0 D cottrell 32068 17630 1 80 0 - 1389 - 15:33 pts/3 00:00:14 cp -r -p -v /nfs/slac/g/net/pinger
/pingerlod /nfs/slac/g/net/pingerdata.unite/pingerlod
...337

cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/pingerlod /nfs/slac/g/net/pingerdata.unite/pingerlod
29G     /nfs/slac/g/net/pinger/pingerlod
29G     /nfs/slac/g/net/pingerdata.unite/pingerlod

```

We then used `rm -r -v` to remove files that have been copied from `/nfs/slac/g/net/pinger/pingerlod` to remove the files however first we have to change the ownership from `renan` to `pinger` by submitting a ticket to `unixadmin`.

```

netfs03 # cd /u2/g.net.pinger/pingerlod
netfs03 # find . -user renan -exec chown -h pinger {} \;
pinger@pinger $ rm -r -v /nfs/slac/g/net/pinger/pingerlod/
removed `/nfs/slac/g/net/pinger/pingerlod/Aduna_Data/openrdf-sesame/logs/main-2013-08-14.log'
removed `/nfs/slac/g/net/pinger/pingerlod/Aduna_Data/openrdf-sesame/logs/main-2013-08-15.log'
...
pinger@pinger $ du -sh /nfs/slac/g/net/pinger/pingerlod/
du: cannot access `/nfs/slac/g/net/pinger/pingerlod/': No such file or directory

```

We also commented out all the pingerlod cronjobs for pinger@pinger.slac.stanford.

Now we have

```

338cottrell@pinger:~$df -h /nfs/slac/g/net/pinger
Filesystem      Size  Used Avail Use% Mounted on
netfs03:/u2/g.net.pinger
                  807G  770G   29G  97% /nfs/slac/g/net/pinger
339cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger
du: cannot read directory `/nfs/slac/g/net/pinger/lost+found': Permission denied
662G    /nfs/slac/g/net/pinger
Exit 1
341cottrell@pinger:/nfs/slac/g/net/pinger$du -sh *
du: cannot read directory `lost+found': Permission denied
1.0K    lost+found
2.7G    pinger2
3.0K    pinger_mon_data
607G    pingerdata
53G     pingerreports
63M     tulip
Exit 1

```

Note (see [PingER data flow at SLAC](#)) pingerdata holds the rawdata gathered from the MAs. pingerreports holds the analyzed data in particular the hourly data.

Next steps

The big elephant is pingerdata. It consists of

```

351cottrell@pinger:/nfs/slac/g/net/pinger/pingerdata$du -sh *
22M     1997
406M     1998
815M     1999
2.3G     2000
3.0G     2001
3.7G     2002
3.9G     2003
589G     hep
2.0K     new
3.9G     oldftp

```

We have the following space in /nfs/slac/g/net/pingerdata.unite

```

54cottrell@pinger:~$df -h /nfs/slac/g/net/pingerdata.unite
Filesystem      Size  Used Avail Use% Mounted on
netfs03:/pingerdata.unite
                  610G  188G  417G  32% /nfs/slac/g/net/pingerdata.unite

```

Problem 10/19/2016

Getting message:

```
/afs/slac/package/pinger/tulip/vtracefromchk.pl
```

produced the following output:

```
Can't close list file: No space left on device at
/afs/slac/package/pinger/tulip/vtracefromchk.pl line 150.
```

AND

```
/afs/slac/package/pinger/unite-monthly.pl
```

produced the following output:

```
28: write error
```

AND

```
/afs/slac/package/pinger/tulip/vtrace0chk.pl
```

produced the following output:

```
can't close tmp
file=/nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_26404.txt: No space left on
device at /afs/slac/package/pinger/tulip/vtrace0chk.pl line 213.
```

```
323cottrell@pinger:~$cp -r -p -v /nfs/slac/g/net/pinger/pingerdata/oldftp /nfs/slac/g/net/pingerdata.unite
/oldftp
`/nfs/slac/g/net/pinger/pingerdata/oldftp' -> `/nfs/slac/g/net/pingerdata.unite/oldftp'
`/nfs/slac/g/net/pinger/pingerdata/oldftp/ping' -> `/nfs/slac/g/net/pingerdata.unite/oldftp/ping'
`/nfs/slac/g/net/pinger/pingerdata/oldftp/ping/2001' -> `/nfs/slac/g/net/pingerdata.unite/oldftp/ping/2001'
`/nfs/slac/g/net/pinger/pingerdata/oldftp/ping/2001/data-2001-01.tar.gz' -> `/nfs/slac/g/net/pingerdata.unite
/oldftp/ping/2001/data-2001-01.tar.gz'
...
326cottrell@pinger:~$ls -l /nfs/slac/g/net/pingerdata.unite/oldftp/*/*
-rw-r--r-- 1 cottrell iepm      51 Jan 25  2005 /nfs/slac/g/net/pingerdata.unite/oldftp/ping/README
-rwxr-xr-x 1 cottrell iepm     603 Jan 25  2005 /nfs/slac/g/net/pingerdata.unite/oldftp/ping/ral.pl*
-rw-r--r-- 1 cottrell iepm 8127136 Jan 25  2005 /nfs/slac/g/net/pingerdata.unite/oldftp/ping/ral.txt
/nfs/slac/g/net/pingerdata.unite/oldftp/ping/2001:
total 3324088
-rw-r--r-- 1 cottrell iepm 211453443 Jan 25  2005 data-2001-01.tar.gz
-rw-r--r-- 1 cottrell iepm 191452967 Jan 25  2005 data-2001-02.tar.gz
...
```

Via ServiceNow ticket INC0117383 I requested that the files in /nfs/slac/g/net/pinger/pingerdata have their ownership group changed to pinger iepm. I tried using sudo with chown but that does not work. Once this is done I can delete /nfs/slac/g/net/pinger/pingerdata/oldftp hence freeing up space for pinger.

```
pinger@pinger $ ls -l /nfs/slac/g/net/pinger/pingerdata/oldftp
total 2
-rw-r--r-- 1 pinger iepm   0 Oct 20 13:11 junk
drwxr-sr-x 4 pinger iepm 512 Jan 25  2005 ping/
drwxr-sr-x 5 pinger iepm 512 Jan 25  2005 traceroute/
pinger@pinger $ ls -l /nfs/slac/g/net/pingerdata.unite/oldftp
total 2
-rw-r--r-- 1 cottrell iepm   0 Oct 20 13:11 junk
drwxr-xr-x 4 cottrell iepm 512 Jan 25  2005 ping/
drwxr-xr-x 5 cottrell iepm 512 Jan 25  2005 traceroute/
pinger@pinger $ rm -r -v /nfs/slac/g/net/pinger/pingerdata/oldftp
removed `df -0ping/2001/data-2001-01.tar.gz'
removed `/nfs/slac/g/net/pinger/pingerdata/oldftp/ping/2001/data-2001-02.tar.gz'
...
```

The copies and deletes were repeated for:

```

351cottrell@pinger:/nfs/slac/g/net/pinger/pingerdata$du -sh *
22M      1997
406M     1998
815M     1999
2.3G     2000
3.0G     2001
3.7G     2002
3.9G     2003
e.g.
309cottrell@pinger:~$cp -r -p -v /nfs/slac/g/net/pinger/pingerdata/1997 /nfs
/slac                                     `/nfs/slac/g/net/pinger
/pingerdata/1997' -> `/nfs/slac/g/net/pingerdata.unite/1997'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-05.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-05.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-06.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-06.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-07.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-07.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-08.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-08.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-09.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-09.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-10.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-10.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-11.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-11.txt.gz'
`/nfs/slac/g/net/pinger/pingerdata/1997/ping-1997-12.txt.gz' -> `/nfs/slac/g/net/pingerdata.unite/1997/ping-
1997-12.txt.gz'

```

Since all this did not save much space and the next thing to copy hep/ requires 0.5TB I requested 1TB archive space via [INC0117666](#) as /nfs/slac/staas/fs1/g/pinger. It has the same permissions as /nfs/slac/g/net/pinger drwxrwsr-x 2 pinger iepm. We looked at where the space was going.

```

318cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/pingerdata/hep/
601G     /nfs/slac/g/net/pinger/pingerdata/hep/
319cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/pingerdata/hep/*
2.5G     /nfs/slac/g/net/pinger/pingerdata/hep/RRDCache
2.2G     /nfs/slac/g/net/pinger/pingerdata/hep/backup
237G     /nfs/slac/g/net/pinger/pingerdata/hep/data
1.0K     /nfs/slac/g/net/pinger/pingerdata/hep/data.unite
359G     /nfs/slac/g/net/pinger/pingerdata/hep/failures

```

I am unsure what failures/ are. I contacted Joao who also does not know what they are so we then made copy of /failures

```
cp -r -p -v /nfs/slac/g/net/pinger/pingerdata/hep/failures /nfs/slac/staas/fs1/g/pinger/pingerdata/hep &
We watched progress with:
```

```
317cottrell@pinger:~$ls -l /nfs/slac/staas/fs1/g/pinger/pingerdata/hep/failures | tail
```

```
-rw-rw-r-- 1 cottrell iepm 1254300337 Oct 17 08:40 log-09-24
-rw-rw-r-- 1 cottrell iepm 1258901031 Oct 17 08:40 log-09-25
-rw-rw-r-- 1 cottrell iepm 1151960612 Oct 17 08:40 log-09-26
-rw-rw-r-- 1 cottrell iepm 1198576167 Oct 17 08:41 log-09-27
-rw-rw-r-- 1 cottrell iepm 1198256583 Oct 17 08:41 log-09-28
-rw-rw-r-- 1 cottrell iepm 1120964327 Oct 17 08:41 log-09-29
-rw-rw-r-- 1 cottrell iepm 1118152578 Oct 17 08:41 log-09-30
-rw-rw-r-- 1 cottrell iepm 1158262461 Oct 17 08:41 log-10-01
-rw-rw-r-- 1 cottrell iepm 1042220531 Oct 17 08:42 log-10-02
-rw----- 1 cottrell iepm 309641216 Oct 26 16:47 log-10-03
```

```
...
```

```
[cottrell@pinger ~]$ rm -r -v /nfs/slac/g/net/pinger/pingerdata/hep/failures
```

```
removed `/nfs/slac/g/net/pinger/pingerdata/hep/failures/log-06-17['
```

```
removed `/nfs/slac/g/net/pinger/pingerdata/hep/failures/log-01-01'
```

```
removed `/nfs/slac/g/net/pinger/pingerdata/hep/failures/log-01-02'
```

```
...
```

```
[cottrell@pinger ~]$ du -sh /nfs/slac/g/net/pinger/pingerdata/hep/*
```

```
2.5G      /nfs/slac/g/net/pinger/pingerdata/hep/RRDCache
```

```
2.2G      /nfs/slac/g/net/pinger/pingerdata/hep/backup
```

```
237G      /nfs/slac/g/net/pinger/pingerdata/hep/data
```

```
1.0K      /nfs/slac/g/net/pinger/pingerdata/hep/data.unite
```

```
[cottrell@pinger ~]$ df /nfs/slac/g/net/pinger/
```

```
Filesystem      1K-blocks      Used Available Use% Mounted on
```

```
netfs03:/u2/g.net.pinger
```

```
845881344 461184000 376238080 56% /nfs/slac/g/net/pinger
```

Problem 11/2/2016

Your "cron" job

```
/afs/slac/package/pinger/getdata.pl >
/afs/slac/g/www/www-iepm/pinger/slaconly/getdata.err
```

produced the following output:

```
gzip:
/nfs/slac/g/net/pinger/pingerdata/hep/data/comsatsswl.seecs.edu.pk/ping-2016-11-01.txt.gz:
No space left on device

ls: cannot access
/nfs/slac/g/net/pinger/pingerdata/hep/data/comsatsswl.seecs.edu.pk/ping-2016-11-01.txt.*:
No such file or directory

gzip:
/nfs/slac/g/net/pinger/pingerdata/hep/data/perfsonar-unimas.myren.net.my/ping-2016-11-01.txt.gz:
No space left on device

ls: cannot access
/nfs/slac/g/net/pinger/pingerdata/hep/data/perfsonar-unimas.myren.net.my/ping-2016-11-01.txt.*:
No such file or directory

gzip:
/nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.isra.edu.pk/ping-2016-11-01.txt.gz:
No space left on device

ls: cannot access
/nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.isra.edu.pk/ping-2016-11-01.txt.*:
No such file or directory

gzip:
/nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.uum.edu.my/ping-2016-11-01.txt.gz:
No space left on device

ls: cannot access
/nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.uum.edu.my/ping-2016-11-01.txt.*:
No such file or directory

gzip: /nfs/slac/g/net/pinger/pingerdata/hep/data/pingeramity.in/ping-2016-11-01.txt.gz:
No space left on device

ls: cannot access
/nfs/slac/g/net/pinger/pingerdata/hep/data/pingeramity.in/ping-2016-11-01.txt.*:
No such file or directory
```

```
321cottrell@pinger:~$cp -r -p -v /nfs/slac/g/net/pinger/pingerdata/2003 /nfs/slac/staas/fs1/g/pinger/pingerdata
/2003
`/nfs/slac/g/net/pinger/pingerdata/2003' -> `/nfs/slac/staas/fs1/g/pinger/pingerdata/2003'
`/nfs/slac/g/net/pinger/pingerdata/2003/cache01.anasp.br' -> `/nfs/slac/staas/fs1/g/pinger/pingerdata/2003
/cache01.anasp.br'
...
pinger@pinger:~$rm -r -v /nfs/slac/staas/fs1/g/pinger/pingerdata/2003
pinger@pinger $ ls -l /nfs/slac/g/net/pinger/pingerdata/2003
ls: cannot access /nfs/slac/g/net/pinger/pingerdata/2003: No such file or directory

pinger@pinger $ ls -l /nfs/slac/g/net/pinger/pingerdata/
total 2
drwxrwsr-x 6 pinger iepm 512 Oct 27 00:32 hep/
-rw-r--r-- 1 pinger iepm  0 Oct 20 11:18 log
drwxrwsr-x 3 pinger iepm 512 Mar  8 2012 new/
```



```

pinger@pinger $ du -sh /nfs/slac/g/net/pinger/pingerdata/hep
244G    /nfs/slac/g/net/pinger/pingerdata/hep
pinger@pinger $ du -sh /nfs/slac/g/net/pinger/pingerdata/
244G    /nfs/slac/g/net/pinger/pingerdata/
pinger@pinger $ du -sh /nfs/slac/g/net/pinger/
du: cannot read directory `/nfs/slac/g/net/pinger/lost+found': Permission denied
691G    /nfs/slac/g/net/pinger/
338cottrell@pinger:~$ls -l /nfs/slac/g/net/pinger/
total 8
drwx-w--- 2 root  root  512 Jan  7  2005 lost+found/
drwxrwsr-x 3 pinger iepm  512 May  7 13:11 pinger2/ #3.3G
drwxrwsr-x 2 iepm  iepm 2560 Jul 11 11:13 pinger_mon_data/ #3G
drwxrwsr-x 4 pinger iepm  512 Nov  2 10:29 pingerdata/ #244G
drwxrwsr-x 3 iepm  iepm  512 Mar 13  2016 pingerreports/ #54G
drwxrwsrwx 4 pinger iepm  512 Nov  1 16:02 tulip/ #391G
#Total 695.3GB
339cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/pingerreports/
54G     /nfs/slac/g/net/pinger/pingerreports/
340cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/pinger2
3.3G    /nfs/slac/g/net/pinger/pinger2
341cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/pinger_mon_data
3.0K    /nfs/slac/g/net/pinger/pinger_mon_data
342cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/tulip
391G    /nfs/slac/g/net/pinger/tulip
pinger@pinger $ df -h /nfs/slac/g/net/pinger
Filesystem      Size  Used Avail Use% Mounted on
netfs03:/u2/g.net.pinger
                807G  799G    0 100% /nfs/slac/g/net/pinger

```

It appears tulip is a big user (391G).

Edited \$vim /afs/slac/package/pinger/tulip/[vtrace0chk.pl](#) to change the directory from /nfs/slac/g/net/pinger/tulip/cachetr to /nfs/slac/staas/fs1/g/pinger/tulip/cachetr

```

366cottrell@pinger:~$ls -lt /nfs/slac/g/net/pinger/tulip
total 2173
-rw-r--r-- 1 pinger iepm      0 Nov  2 15:50 fromlist.txt
drwxrwxrwx 2 pinger iepm 835584 Nov  2 06:15 cache/
drwxrwxrwx 2 pinger iepm  3584 Nov  2 03:26 cachetr/
-rw-r--r-- 1 pinger sf      4098 Nov  1 16:02 from.txt
-rwxr--r-- 1 pinger iepm  6755 Oct  3 2014 perfdb.pl*
-rw-r--r-- 1 rajaasad iepm  5508 Oct  3 2014 perfsonar-10-4-14.txt
-rw-r--r-- 1 rajaasad iepm 1116103 May 31 2014 cities15000.csv
-rw-r--r-- 1 rajaasad iepm  7498 May 31 2014 undns.pl
-rwxr-xr-x 1 pinger iepm  6542 Feb 18 2014 vtracefromchk.pl*
-rw-rw-r-- 1 cottrell iepm  1762 Feb 18 2014 from.bak.txt
-rw-r--r-- 1 pinger iepm 175702 Feb 10 2014 citidb.txt
-rw-r--r-- 1 pinger iepm  14637 Feb 10 2014 psonar_vtrace.txt
-rw-r--r-- 1 pinger iepm  6394 Feb  8 2014 pinger_vtrace.txt
370cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/tulip/cachetr
391G    /nfs/slac/g/net/pinger/tulip/cachetr
399cottrell@pinger:~$`/nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp.txt' -> `/nfs/slac/staas/fs1/g/pinger/tulip
/cachetr/cache_tmp.txt'
`/nfs/slac/g/net/pinger/tulip/cachetr/cache-tmp.txt' -> `/nfs/slac/staas/fs1/g/pinger/tulip/cachetr/cache-tmp.
txt'
`/nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_19357.txt' -> `/nfs/slac/staas/fs1/g/pinger/tulip/cachetr
/cache_tmp_19357.txt'
...
406cottrell@pinger:~$rm -f -v /nfs/slac/g/net/pinger/tulip/cachetr/*
removed `/nfs/slac/g/net/pinger/tulip/cachetr/cache-tmp.txt'
removed `/nfs/slac/g/net/pinger/tulip/cachetr/cache.old'
removed `/nfs/slac/g/net/pinger/tulip/cachetr/cache.txt'
removed `/nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp.txt'
removed `/nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_10503.txt'
...
417cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/tulip/cachetr
7.0K    /nfs/slac/g/net/pinger/tulip/cachetr
Nb

```

A potentially useful command is:

```

343cottrell@pinger:~$find /nfs/slac/g/net/pinger -printf '%s %p\n' | sort -nr | head -10
find: `/nfs/slac/g/net/pinger/lost+found': Permission denied
236243945489 /nfs/slac/g/net/pinger/tulip/cachetr/cache.txt
191324110848 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1509.txt
125348712448 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1522.txt
14292140032 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_14177.txt
9648889856 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_26404.txt
4080336896 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_8874.txt
719821346 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-10.txt
693718734 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-11.txt
688237297 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-12.txt
684539559 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-08.txt
Exit 141 '%s %p\n' | sort -nr | head -10
find: `/nfs/slac/g/net/pinger/lost+found': Permission denied
236243945489 /nfs/slac/g/net/pinger/tulip/cachetr/cache.txt
191324110848 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1509.txt
125348712448 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1522.txt
14292140032 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_14177.txt
9648889856 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_26404.txt
4080336896 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_8874.txt
719821346 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-10.txt
693718734 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-11.txt
688237297 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-12.txt
684539559 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-08.txt
Exit 141

```

```

366cottrell@pinger:~$ls -lt /nfs/slac/g/net/pinger/tulip
total 2173
-rw-r--r-- 1 pinger iepm      0 Nov  2 15:50 fromlist.txt
drwxrwxrwx 2 pinger iepm 835584 Nov  2 06:15 cache/
drwxrwsrwx 2 pinger iepm  3584 Nov  2 03:26 cachetr/
-rw-r--r-- 1 pinger sf      4098 Nov  1 16:02 from.txt
-rwxr--r-- 1 pinger iepm  6755 Oct  3 2014 perfdb.pl*
-rw-r--r-- 1 rajaasad iepm  5508 Oct  3 2014 perfsonar-10-4-14.txt
-rw-r--r-- 1 rajaasad iepm 1116103 May 31 2014 cities15000.csv
-rw-r--r-- 1 rajaasad iepm  7498 May 31 2014 undns.pl
-rwxr-xr-x 1 pinger iepm  6542 Feb 18 2014 vtracefromchk.pl*
-rw-rw-r-- 1 cottrell iepm  1762 Feb 18 2014 from.bak.txt
-rw-r--r-- 1 pinger iepm 175702 Feb 10 2014 citidb.txt
-rw-r--r-- 1 pinger iepm 14637 Feb 10 2014 psonar_vtrace.txt
-rw-r--r-- 1 pinger iepm  6394 Feb  8 2014 pinger_vtrace.txt
370cottrell@pinger:~$du -sh /nfs/slac/g/net/pinger/tulip/cachetr
391G    /nfs/slac/g/net/pinger/tulip/cachetr

```

A potentially useful command is:

```

343cottrell@pinger:~$find /nfs/slac/g/net/pinger -printf '%s %p\n' | sort -nr | head -10
find: `/nfs/slac/g/net/pinger/lost+found': Permission denied
236243945489 /nfs/slac/g/net/pinger/tulip/cachetr/cache.txt
191324110848 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1509.txt
125348712448 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1522.txt
14292140032 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_14177.txt
9648889856 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_26404.txt
4080336896 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_8874.txt
719821346 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-10.txt
693718734 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-11.txt
688237297 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-12.txt
684539559 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-08.txt
Exit 141 '%s %p\n' | sort -nr | head -10
find: `/nfs/slac/g/net/pinger/lost+found': Permission denied
236243945489 /nfs/slac/g/net/pinger/tulip/cachetr/cache.txt
191324110848 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1509.txt
125348712448 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_1522.txt
14292140032 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_14177.txt
9648889856 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_26404.txt
4080336896 /nfs/slac/g/net/pinger/tulip/cachetr/cache_tmp_8874.txt
719821346 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-10.txt
693718734 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-11.txt
688237297 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-12.txt
684539559 /nfs/slac/g/net/pinger/pingerdata/hep/data/pinger.slac.stanford.edu/ping-2015-08.txt
Exit 141

```