

NFS-GANESHA : Users Guide to the ganestat.pl tool

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Ganestat is a tool written in PERL and designed to interpret the statistics's file produced by GANESHA in order to have a "human readable" output.

It is pretty simple to use (we suppose that /var/ganesha.stats is the statistics file produced by GANESHA):

```
ganestat.pl /var/ganesha.stats
```

```
*****
```

```
----- 05/06/2008 14:03:22 : NFS_SERVER_GENERAL -----
```

```
Server is up since : 04/06/2008 08:53:18
```

```
Uptime : 1 d, 5 h, 10 min, 4 s.
```

```
----- 05/06/2008 14:03:22 : CACHE_INODE_CALLS -----
```

```
Total calls : 9722271
```

FUNCTION	NB_CALLS	OK	RETRYABLE	UNRECOV.
access	2590686	2432453	158233	0
getattr	1086654	1094456	0	0

```
mkdir |      0 |    82 |    0 |    0
(a very long output follows)
```

This command will only interpret the last records within the statistics file. Using the '-A' option will make ganestat.pl interpret the content of the whole file and print it.

You can filter the output by choosing a sub-category of statistics. Available categories are:

- NFS_SERVER_GENERAL
- CACHE_INODE_CALLS
- CACHE_INODE_HASH
- NFS/MOUNT
- MNT
- NFS
- DUP_REQ_HASH
- UIDMAP_HASH
- UNAMEMAP_HASH
- GIDMAP_HASH
- GNAMEMAP_HASH
- IP_NAME_HASH
- FSAL_CALLS
- BUDDY_MEMORY

For example:

```
ganestat.pl -t FSAL_CALLS /var/ganesha.stats
```

will print only the information related to FSAL calls.

Several tags can be used jointly, for example

```
ganestat.pl -t 'CACHE_INODE_HASH|CACHE_INODE_CALLS' /var/ganesha.sttas
```

Will print the information of both CACHE_INODE calls and hashtables.

You may also want to “follow” the statistics” as they are produced. The “-f” option is somewhat similar to “tail -f” feature.

For example:

```
ganestat.pl -t FSAL_CALLS -f /var/ganesha.stats
```

will print the stats on FSAL_CALLS and print the new stats as they are produced, on the fly.