From: **Andreas-Joachim Peters** andreas.joachim.peters@cern.ch
Subject: Re: "df" equivalent in EOS
Date: 11 July 2019 at 16:34
To: German Cancio Melia German.Cancio.Melia@cern.ch
Cc: Julien Leduc Julien.Leduc@cern.ch, Steven Murray Steven.Murray@cern.ch

Hi German,
the easiest is to enable a project quota on each branch in the instance you are interested.

This will show the logical and physical space used.

```
┌──> Quota Node: /
┌──────────┬────────────┬────────────┬────────────┬────────────┬────────────┬────────────┬─────────────┬─────────────┐
| group    | used bytes | logi bytes | used files | aval bytes | aval logib | aval files |  filled[%] | vol-status | ino-status |
└──────────┴────────────┴────────────┴────────────┴────────────┴────────────┴────────────┴─────────────┴─────────────┘
project     10.84 GB   10.83 GB   862.07 K   2.00 PB    2.00 PB    1.00 G     0.00 %        ok         ok
└──────────
```

There is already a hook to use the quota command instead of the 'space ls' information when xrd space query is used (this is what ALICE uses).

You could modify Statvfs.cc do return as free bytes and max bytes the free space on the ssds and max bytes the volume of the ssds.
The free space you get from the physical accounting on the quota node, the max space you have to configure as the project quota or use the rw capacity reported for the space.

Cheers Andreas.

On Thu, Jul 11, 2019 at 4:24 PM German Cancio Melia <German.Cancio.Melia@cern.ch> wrote:

> Andreas,
>
> what would be the equivalent of df in EOS? On a FUSE mount, we have
>
> ```
> [lxplus714] ~ > df -h|egrep -e '(Avail|/eos/atlas)'
> Filesystem      Size  Used Avail Use% Mounted on
> eosatlas         53P   42P   12P  79% /eos/atlas
> [lxplus714] ~ >
> ```
>
> and how is the space/occupancy calculated (real physical space vs namespace - relevant for CTA as we evict tape-resident files from disk)? How often is that information updated?
>
> Bottomline is that for flow control, ALICE would like to know how much free buffer space there is on their EOSCTA instance.
>
> thanks and cheers, Germán