Subject: Are dcachesize values supposed to be 0's?
Posted by dowdle on Thu, 07 Feb 2008 17:20:32 GMT
View Forum Message <> Reply to Message

I haven't had any problems as a result of this... but looking at the UBC output from a few different machines I notice that several of them have 0 values in the held and maxheld values for dcachesize. This seems odd. Should dcachesize have 0 values?

There didn't seem to be any pattern to when it would be zero and when it wouldn't be 0. I have two machines that are exactly alike in hardware and software... and even VPSes... and one has non-0 values for dcachesize and the other has 0's.

Example output from two similar hardware nodes:

```
[root@backup1 ~]# grep dcachesize /proc/user_beancounters
        dcachesize       65844      90801    9985491   10285056          0
        dcachesize     1696690    1863838 2147483647 2147483647          0
```

```
[root@backup2 ~]# grep dcachesize /proc/user_beancounters
        dcachesize          0          0    9985491   10285056          0
        dcachesize          0          0 2147483647 2147483647          0
```

Questions:

1) Should the held and maxheld columns for dcachesize ever be 0

2) If yes to #1, why?

3) If no to #2, want me to file a bug report?

Subject: Re: Are dcachesize values supposed to be 0's?
Posted by maratrus on Sat, 09 Feb 2008 19:54:34 GMT
View Forum Message <> Reply to Message

Hi,

I suppose it is a normal behavior.
To decrease the overhead concerned with dcache accounting the following policy are used. There are two values which are responsible of dcache accounting. If dentry_cache size exceeded the first value the accouting is switched on and it becomes on until dentry_cache becomes smaller than the second value.

sysctl parameter ubc.dentry_watermark helps us to manage a dcache accounting.

ubc.dentry_watermark = 0 100 means that accounting is switched on if dcache size exceeded 10% of memory and switched off if it will take 0%.