

CephFS - Feature #36663

mds: adjust cache memory limit automatically via target that tracks RSS

10/31/2018 06:34 PM - Patrick Donnelly

Status:	In Progress	% Done:	0%
Priority:	High		
Assignee:	Sidharth Anupkrishnan		
Category:	Performance/Resource Usage		
Target version:	v17.0.0		
Source:	Development	Affected Versions:	
Tags:		Component(FS):	MDS
Backport:		Labels (FS):	task(intern), task(medium)
Reviewed:		Pull request ID:	27027
Description			
Basic idea is to have a new config like `mds_memory_target` that, if set, automatically adjusts `mds_cache_memory_limit` in response to RSS memory usage.			
Recent experiments found that real RSS usage is about 1.25x the `mds_cache_memory_limit`. So, another layer which tracks RSS and makes finer adjustments would be valuable.			
Related issues:			
Related to CephFS - Bug #22962: mds: move remaining containers in CDentry/CDi...		New	09/15/2017
Related to CephFS - Bug #20594: mds: cache limits should be expressed in memo...		Resolved	07/12/2017

History

#1 - 10/31/2018 06:35 PM - Patrick Donnelly

- Related to Bug #22962: mds: move remaining containers in CDentry/CDir/Inode to mempool (cont.) added

#2 - 10/31/2018 06:35 PM - Patrick Donnelly

- Related to Bug #20594: mds: cache limits should be expressed in memory usage, not inode count added

#3 - 03/07/2019 02:47 PM - Patrick Donnelly

- Status changed from New to In Progress

- Assignee set to Sidharth Anupkrishnan

- Target version changed from v14.0.0 to v15.0.0

- Labels (FS) task(intern), task(medium) added

#4 - 03/08/2019 06:27 PM - Patrick Donnelly

- Backport set to nautilus

#5 - 10/24/2019 08:23 PM - Vikhyat Umrao

- Pull request ID set to 27027

#6 - 02/26/2020 05:31 PM - Patrick Donnelly

- Target version changed from v15.0.0 to v16.0.0

- Backport deleted (nautilus)

#7 - 01/15/2021 10:40 PM - Patrick Donnelly

- Target version changed from v16.0.0 to v17.0.0