Subject: determining per process memory usage
Posted by M.K. on Fri, 24 Jun 2011 06:41:07 GMT
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Hi. I'm working on a process logger primary intended for use on a an openVZ slice. This reads various statistics from /proc/[pid]/ and logs them over time; the interval is in minutes, so, eg, a process can be polled every quarter of an hour perpetually.

None of the familiar memory related stats -- virtual, resident, stack+data, etc -- is very closely related to the amount the process contributes to openVZ's used/free "allocated" memory total. However, it seems to me this is almost exactly the figure reported by pmap -d as "writable/private", which is simply a total of the private blocks with write permission from /proc/[pid]/maps.

Can anyone confirm or deny this? I'm willing to open source the code (C) and make it freely available to other openVZ users as this seems a useful thing to watch and a simple way to do it -- if that figure is as valid as I think it is.