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Subject: 2GB Memory Limit per process (32bit)?  
Posted by [jacobwm](#) on Thu, 22 Jun 2006 22:24:02 GMT  
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I'm running the SMP version of the latest stable kernel (2.6., and it seems I cannot run a java process with a 2GB heap requirement. I can set it to 1800M (min/max), but not 2000M.

Is there an inherent memory limit for an individual process and if so is there a way to overcome this with the openvz (32-bit)? Would the 64-bit version work?

I tried the enterprise version and the 2.6.16 branch -- neither worked. The stock RHEL4 kernels work fine at allowing at least 2GB (haven't tried higher yet).

Unfortunately this particular java app caches a large amount of data and actually does need around 2GB or memory and will likely need more in the future.

BTW I set the `privvmpages=3500M:3500M` for this test. I also looked at the kernel config file, but didn't see anything specific to individual process limits (`ulimit` didn't help either), but I could be missing something.

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