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Subject: Re: Weird memory numbers

Posted by [dev](#) on Thu, 13 Sep 2007 11:24:15 GMT

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1. hmm... strange

I'll check

2. No. OS doesn't know in reality how much RAM you will consume.

Look, you can mmap 1GB private mappings on machine with 100Mb of RAM. You will be allowed to do so on std kernel (without disabled overcommitment). i.e. this 1GB will be charged to privmpages.

The real memory pages are allocated later when application really wants to touch the memory.

This is what charged to oomguarpages.

Applications very often map files privately with write access, so potentially they can have a full private copy of file in memory. But in reality they touch only small pieces of it, so little memory is required. And that's why privmpages >> oomguarpages.

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