

poor mm, vmstat -- flt/ fr peaks -- what does they mean?

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 - *Date:* Thu, 29 Jun 2006 10:55:30 +0200
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I use recent STABLE

I lately noticed some memory management related performance problems on my system — I haven't changed the software I use (apart from upgrading some packages) but I get clicks/lags which playing music, which didn't happen before :(In fact, I've never had such 'lags' when clicking windows/firefox tabs or problems with music since FreeBSD 4.5.

I tried to trace this, but i don't have an idea how.

It seems there are peaks of faulting, and then freeing a lot of memory.

The music clicks are happening about 2–3 lines (seconds) below the peaks.

Also, there is a lot of 'fr' ---freed pages, but the ammount of 'fre' – free pages does not change. what does this mean? It's not freeing because of forced swapping, because pi/po is 0 almost all the time

vmstat says:

```
procs memory page disks faults cpu
r b w avm fre flt re pi po fr sr ad0 cd0 in sy cs us sy id
4 2 1 887924 76716 5678 10 3 3 6733 617 0 0 1154 11552 5400 18 10 72
0 2 1 887924 76708 71 1 0 0 52 0 0 0 1231 9366 5873 12 6 82
2 2 1 887924 76516 224 0 0 0 202 0 2 0 1245 29414 7338 37 8 54
2 2 1 887920 76512 13083 1 0 0 16187 0 0 0 1242 37314 7983 38 22 40
0 2 1 887920 76384 295 0 0 0 278 0 1 0 1275 56337 8235 16 10 74
0 3 0 887920 76384 72 0 0 0 65 0 0 0 1575 10924 6780 7 2 91
1 2 1 887920 76384 40 0 0 0 50 0 0 0 1782 12263 7128 8 4 88
1 2 1 887920 76384 69 0 0 0 65 0 0 0 1720 10189 7021 17 4 78
0 3 0 887920 76256 12732 0 0 0 15655 0 4 0 1225 9442 5858 29 28 44
0 2 1 887920 76256 155 0 0 0 157 0 18 0 1257 21274 6910 11 6 83
2 2 1 887920 76176 126 0 0 0 141 0 1 0 1248 22010 6824 6 4 90
2 2 1 887924 76172 73 0 0 0 52 0 0 0 1755 10257 7042 28 7 65
1 2 1 887920 76048 42 0 0 0 51 0 1 0 1816 11311 7325 28 4 67
0 2 1 887936 76032 12804 0 0 0 15792 0 0 0 1797 10466 7008 35 29 36
1 3 0 887936 76028 46 0 0 0 67 0 14 0 1816 11688 7352 7 6 87
0 3 0 887676 76416 70 0 0 0 162 0 0 0 1763 10971 7105 13 7 80
0 2 1 887680 76284 52 0 0 0 65 0 0 0 1727 52113 6806 29 20 50
1 3 0 887680 76284 69 0 0 0 50 0 1 0 1770 10418 7171 19 7 73
0 2 1 887688 76164 12804 0 0 0 15672 0 32 0 1763 12186 6998 41 28 31
1 2 1 887688 76164 69 0 0 0 65 0 0 0 1284 10588 6178 5 2 94
1 2 1 887688 76036 44 0 0 0 52 0 1 0 1238 10377 5988 5 6 89
```

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```
0 2 1 887688 76036 71 0 0 0 65 0 0 0 1261 10256 5929 14 4 82
1 2 1 895776 70236 1845 0 0 0 136 0 1 0 1193 18138 5565 34 8 57
2 2 1 887688 76036 11269 0 0 0 15649 0 0 0 1288 10355 5988 24 19 57
1 2 1 887688 75796 75 0 0 0 79 0 2 0 1451 12141 6548 9 5 86
2 2 1 887688 75796 69 0 0 0 65 0 0 0 1767 11031 7108 6 7 87
1 2 1 887688 75812 40 0 0 0 69 0 1 0 1265 10258 5993 18 5 77
(sorry for wrapped output)
```

Thank You for Your thoughts,

m.

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