

# Re: [patch 00/24] perfmon: introduction

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-11/msg10367.html>

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  - *Date:* Wed, 26 Nov 2008 15:19:36 +0100
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A generic request (i'll continue to post my specific remarks to the subject patches):

before submitting patches to lkml, please run them through scripts/checkpatch.pl. Your current lot introduces an excessive number of 69 (!) new errors+warnings:

total: 45 errors, 24 warnings, 7394 lines checked

Thanks,

Ingo

----->

```
ERROR: need space after that ',' (ctx:VxV)
#403: FILE: arch/x86/include/asm/mach-default/entry_arch.h:37:
+BUILD_INTERRUPT(pmu_interrupt,LOCAL_PERFMON_VECTOR)
^
```

```
WARNING: line over 80 characters
#770: FILE: arch/x86/include/asm/perfmon_kern.h:320:
+static inline void pfm_arch_ovfl_reset_pmd(struct pfm_context *ctx, unsigned int cnum)
```

```
WARNING: line over 80 characters
#784: FILE: arch/x86/include/asm/perfmon_kern.h:334:
+static inline int pfm_arch_context_create(struct pfm_context *ctx, u32 ctx_flags)
```

```
WARNING: line over 80 characters
#802: FILE: arch/x86/include/asm/perfmon_kern.h:352:
+int pfm_arch_ctxswout_thread(struct task_struct *task, struct pfm_context *ctx);
```

```
ERROR: use tabs not spaces
#1059: FILE: arch/x86/kernel/process_32.c:465:
+ ^Iif (test_tsk_thread_flag(prev_p, TIF_PERFMON_CTXSW))$
```

```
ERROR: use tabs not spaces
#1060: FILE: arch/x86/kernel/process_32.c:466:
+ ^I^Ipfm_ctxsw_out(prev_p, next_p);$
```

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ERROR: use tabs not spaces

#1138: FILE: arch/x86/kernel/signal\_32.c:689:

+ ^I/\* process perfmon asynchronous work (e.g. block thread or reset) \*/\$

ERROR: use tabs not spaces

#1139: FILE: arch/x86/kernel/signal\_32.c:690:

+ ^Iif (thread\_info\_flags & \_TIF\_PERFMON\_WORK)\$

ERROR: use tabs not spaces

#1140: FILE: arch/x86/kernel/signal\_32.c:691:

+ ^I^Ipfm\_handle\_work(regs);\$

ERROR: use tabs not spaces

#1161: FILE: arch/x86/kernel/signal\_64.c:489:

+ ^I/\* process perfmon asynchronous work (e.g. block thread or reset) \*/\$

ERROR: use tabs not spaces

#1162: FILE: arch/x86/kernel/signal\_64.c:490:

+ ^Iif (thread\_info\_flags & \_TIF\_PERFMON\_WORK)\$

ERROR: use tabs not spaces

#1163: FILE: arch/x86/kernel/signal\_64.c:491:

+ ^I^Ipfm\_handle\_work(regs);\$

WARNING: line over 80 characters

#1969: FILE: arch/x86/perfmon/perfmon\_amd64.c:70:

+/\* pmc0 \*/ PMC\_D(PFM\_REG\_I64, "PERFSEL0", PFM\_K8\_VAL, PFM\_K8\_RSVD, PFM\_K8\_NO64, MSR\_K7\_EVNTSEL0),

WARNING: line over 80 characters

#1970: FILE: arch/x86/perfmon/perfmon\_amd64.c:71:

+/\* pmc1 \*/ PMC\_D(PFM\_REG\_I64, "PERFSEL1", PFM\_K8\_VAL, PFM\_K8\_RSVD, PFM\_K8\_NO64, MSR\_K7\_EVNTSEL1),

WARNING: line over 80 characters

#1971: FILE: arch/x86/perfmon/perfmon\_amd64.c:72:

+/\* pmc2 \*/ PMC\_D(PFM\_REG\_I64, "PERFSEL2", PFM\_K8\_VAL, PFM\_K8\_RSVD, PFM\_K8\_NO64, MSR\_K7\_EVNTSEL2),

WARNING: line over 80 characters

#1972: FILE: arch/x86/perfmon/perfmon\_amd64.c:73:

+/\* pmc3 \*/ PMC\_D(PFM\_REG\_I64, "PERFSEL3", PFM\_K8\_VAL, PFM\_K8\_RSVD, PFM\_K8\_NO64, MSR\_K7\_EVNTSEL3),

ERROR: use tabs not spaces

#2289: FILE: arch/x86/perfmon/perfmon\_amd64.c:390:

+^I^I set->used\_pmcs,\$

ERROR: use tabs not spaces

#2290: FILE: arch/x86/perfmon/perfmon\_amd64.c:391:

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```
+^I^I enable_mask,$
```

ERROR: use tabs not spaces

```
#2291: FILE: arch/x86/perfmon/perfmon_amd64.c:392:  
+^I^I max_enable);$
```

ERROR: need space after that ',' (ctx:VxV)

```
#2328: FILE: arch/x86/perfmon/perfmon_amd64.c:429:  
+ pfm_arch_bv_set_bit(i,set->povfl_pmnds);  
^
```

ERROR: need consistent spacing around '+' (ctx:VxW)

```
#2563: FILE: arch/x86/perfmon/perfmon_intel_arch.c:176:  
+ max_enable = i+ 1;  
^
```

ERROR: use tabs not spaces

```
#2748: FILE: arch/x86/perfmon/perfmon_intel_arch.c:361:  
+ ^I/*$
```

ERROR: need spaces around that '=' (ctx:VxV)

```
#2936: FILE: arch/x86/perfmon/perfmon_intel_arch.c:549:  
+ for (i=0; i < 16; i++) {  
^
```

ERROR: need spaces around that '=' (ctx:VxV)

```
#2941: FILE: arch/x86/perfmon/perfmon_intel_arch.c:554:  
+ for (i=16; i < PFM_IA_MAX_PMDS; i++) {  
^
```

WARNING: line over 80 characters

```
#3260: FILE: include/linux/perfmon_kern.h:133:  
+ struct pfm_regdesc regs; /* registers available to context */
```

WARNING: line over 80 characters

```
#3286: FILE: include/linux/perfmon_kern.h:159:  
+ if (unlikely((pfm_controls.debug & lm) && printk_ratelimit())) { \
```

WARNING: printk() should include KERN\_ facility level

```
#3287: FILE: include/linux/perfmon_kern.h:160:  
+ printk("perfmon: %s.%d: CPU%d [%d]: " f "\n", \
```

ERROR: use tabs not spaces

```
#3565: FILE: include/linux/sched.h:1356:  
+ ^Istruct pfm_context *pfm_context;$
```

WARNING: line over 80 characters

```
#3581: FILE: include/linux/syscalls.h:630:  
+ char __user *f, void __user *uarg, size_t uarg_size);
```

WARNING: line over 80 characters

Re: [patch 00/24] perfmon: introduction

#3583: FILE: include/linux/syscalls.h:632:  
+asm linkage long sys\_pfm\_write(int fd, int flags, int type, void \_\_user \*arg, size\_t s);

WARNING: line over 80 characters

#3584: FILE: include/linux/syscalls.h:633:  
+asm linkage long sys\_pfm\_read(int fd, int flags, int type, void \_\_user \*arg, size\_t s);

ERROR: use tabs not spaces

#3865: FILE: perfmon/perfmon\_attach.c:100:  
+ ^I \* link context to task\$

ERROR: use tabs not spaces

#3866: FILE: perfmon/perfmon\_attach.c:101:  
+ ^I \*/\$

ERROR: use tabs not spaces

#3897: FILE: perfmon/perfmon\_attach.c:132:  
+ ^I^I \* on UP, we may have to push out the PMU\$

ERROR: use tabs not spaces

#3898: FILE: perfmon/perfmon\_attach.c:133:  
+ ^I^I \* state of the last monitored thread\$

ERROR: use tabs not spaces

#3899: FILE: perfmon/perfmon\_attach.c:134:  
+ ^I^I \*/\$

ERROR: use tabs not spaces

#3922: FILE: perfmon/perfmon\_attach.c:157:  
+ ^I \* will cause switch\_to() to invoke PMU\$

ERROR: use tabs not spaces

#3923: FILE: perfmon/perfmon\_attach.c:158:  
+ ^I \* context switch code\$

ERROR: use tabs not spaces

#3924: FILE: perfmon/perfmon\_attach.c:159:  
+ ^I \*/\$

ERROR: "foo \* bar" should be "foo \*bar"

#5014: FILE: perfmon/perfmon\_file.c:245:  
+ struct inode \* inode;

ERROR: use tabs not spaces

#5145: FILE: perfmon/perfmon\_init.c:65:  
+ ^Iif (pfm\_init\_sysfs())\$

ERROR: use tabs not spaces

#5146: FILE: perfmon/perfmon\_init.c:66:  
+ ^I^Igoto error\_disable;\$

Re: [patch 00/24] perfmon: introduction

WARNING: line over 80 characters

#5687: FILE: perfmon/perfmon\_pmu.c:215:

```
+ memset(&pfm_pmu_conf->regs_all, 0, sizeof(struct pfm_regdesc));
```

ERROR: use tabs not spaces

#5690: FILE: perfmon/perfmon\_pmu.c:218:

```
+ ^I^I^I^I ^I unavail_pmcs,$
```

WARNING: line over 80 characters

#5694: FILE: perfmon/perfmon\_pmu.c:222:

```
+ (unsigned long long)pfm_pmu_conf->regs_all.pmcs[0]);
```

WARNING: line over 80 characters

#6194: FILE: perfmon/perfmon\_rw.c:84:

```
+static inline int update_changes(struct pfm_context *ctx, struct pfm_event_set *set,
```

ERROR: need a space before the open parenthesis '('

#6219: FILE: perfmon/perfmon\_rw.c:109:

```
+ for(p = 0; n; n--, p = q+1) {
```

ERROR: need space before that '-' (ctx:VxV)

#6768: FILE: perfmon/perfmon\_syscalls.c:204:

```
+ state, check_mask, task ? task->pid:-1);
```

```
^
```

ERROR: need space after that ',' (ctx:VxV)

#6859: FILE: perfmon/perfmon\_syscalls.c:295:

```
+ PFM_DBG("ret=%d",ret);
```

```
^
```

ERROR: need a space before the open parenthesis '('

#6987: FILE: perfmon/perfmon\_syscalls.c:423:

```
+ switch(type) {
```

ERROR: need a space before the open parenthesis '('

#7081: FILE: perfmon/perfmon\_syscalls.c:517:

```
+ switch(type) {
```

WARNING: kfree(NULL) is safe this check is probabally not required

#7100: FILE: perfmon/perfmon\_syscalls.c:536:

```
+ if (fptr)
```

```
+ kfree(fptr);
```

ERROR: need a space before the open parenthesis '('

#7145: FILE: perfmon/perfmon\_syscalls.c:581:

```
+ switch(type) {
```

WARNING: kfree(NULL) is safe this check is probabally not required

#7160: FILE: perfmon/perfmon\_syscalls.c:596:

```
+ if (fptr)
```

```
+ kfree(fptr);
```

Re: [patch 00/24] perfmon: introduction

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ERROR: need a space before the open parenthesis '('  
#7180: FILE: perfmon/perfmon\_syscalls.c:616:  
+ switch(state) {

ERROR: use tabs not spaces  
#7258: FILE: perfmon/perfmon\_syscalls.c:694:  
+ ^I \* handle detach in a separate function\$

ERROR: use tabs not spaces  
#7259: FILE: perfmon/perfmon\_syscalls.c:695:  
+ ^I \*/\$

ERROR: use tabs not spaces  
#7276: FILE: perfmon/perfmon\_syscalls.c:712:  
+ ^Iif (target != current->pid) {\$

WARNING: line over 80 characters  
#7394: FILE: perfmon/perfmon\_sysfs.c:84:  
+static ssize\_t pfm\_controls\_show(struct kobject \*kobj, struct kobj\_attribute \*attr, char \*buf)

WARNING: line over 80 characters  
#7398: FILE: perfmon/perfmon\_sysfs.c:88:  
+ return snprintf(buf, PAGE\_SIZE, "%u.%u\n", PFM\_VERSION\_MAJ, PFM\_VERSION\_MIN);

WARNING: line over 80 characters  
#7407: FILE: perfmon/perfmon\_sysfs.c:97:  
+ return snprintf(buf, PAGE\_SIZE, "%d\n", pfm\_controls.task\_group);

WARNING: line over 80 characters  
#7410: FILE: perfmon/perfmon\_sysfs.c:100:  
+ return snprintf(buf, PAGE\_SIZE, "%zu\n", pfm\_controls.arg\_mem\_max);

WARNING: line over 80 characters  
#7415: FILE: perfmon/perfmon\_sysfs.c:105:  
+static ssize\_t pfm\_controls\_store(struct kobject \*kobj, struct kobj\_attribute \*attr,

ERROR: use tabs not spaces  
#7416: FILE: perfmon/perfmon\_sysfs.c:106:  
+^I^I^I ^I const char \*buf, size\_t count)\$

WARNING: line over 80 characters  
#7518: FILE: perfmon/perfmon\_sysfs.c:208:  
+static ssize\_t pfm\_pmu\_show(struct kobject \*kobj, struct kobj\_attribute \*attr, char \*buf)

ERROR: use tabs not spaces  
#7635: FILE: perfmon/perfmon\_sysfs.c:325:  
+ ^I \* dynamic allocation happens on pfm\_kernel\_kobj,\$

ERROR: use tabs not spaces  
#7636: FILE: perfmon/perfmon\_sysfs.c:326:

Re: [patch 00/24] perfmon: introduction

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+ ^I \* but a release callback is attached\$

ERROR: use tabs not spaces

#7637: FILE: perfmon/perfmon\_sysfs.c:327:

+ ^I \*/\$

ERROR: Missing Signed-off-by: line(s)

total: 45 errors, 24 warnings, 7394 lines checked

Your patch has style problems, please review. If any of these errors are false positives report them to the maintainer, see CHECKPATCH in MAINTAINERS.

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