

Re: Updated procstat(1)

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2007-11/msg00324.html>

- *From:* Skip Ford <skip@xxxxxxxxxxxxxx>
 - *Date:* Wed, 28 Nov 2007 07:38:26 -0500
-

Skip Ford wrote:

Robert Watson wrote:

On Wed, 28 Nov 2007, Skip Ford wrote:

– "-a" now means "all processes",

Thanks. :-) I'm a little surprised. You seemed pretty dedicated to a per-process tool.

I was, but then I read your e-mail and became convinced that the first patch that would be submitted against procstat(1) would be a "-a" patch. :-)

Yep, would've happened. Now the first patch submitted will be a "-w interval" patch... :-)

I couldn't resist implementing a crude interval arg just for kicks. Here's the output of find(1) every second. This is so cool:

```
$ procstat -k -w 1 948
PID TID COMM KSTACK
948 100099 find mi_switch thread_suspend_check userret syscall Xint0x80_syscall
948 100099 find mi_switch sleepq_switch sleepq_wait _sleep bwait bufwait breadn bread ffs_read
VOP_READ_APV ufs_readdir VOP_READDIR_APV getdirentries syscall Xint0x80_syscall
948 100099 find mi_switch turnstile_wait _mtx_lock_sleep fdalloc falloc kern_open open syscall
Xint0x80_syscall
948 100099 find mi_switch sleepq_switch sleepq_wait _sleep bwait bufwait breadn bread ffs_read
VOP_READ_APV ufs_readdir VOP_READDIR_APV getdirentries syscall Xint0x80_syscall
948 100099 find mi_switch critical_exit intr_execute_handlers atpic_handle_intr Xatpic_intr0
948 100099 find mi_switch ast doreti_ast
948 100099 find mi_switch sleepq_switch sleepq_wait _sleep bwait bufwait breadn bread ffs_read
VOP_READ_APV ufs_readdir VOP_READDIR_APV getdirentries syscall Xint0x80_syscall
```

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```
948 100099 find mi_switch turnstile_wait _mtx_lock_sleep fdalloc falloc kern_open open syscall
Xint0x80_syscall
948 100099 find mi_switch critical_exit intr_execute_handlers atpic_handle_intr Xatpic_intr0 priv_check
vn_stat vn_statfile kern_fstat fstat syscall Xint0x80_syscall
948 100099 find mi_switch sleepq_switch sleepq_wait _sleep bwait bufwait breadn bread ffs_vget ufs_lookup
VOP_CACHEDLOOKUP_APV vfs_cache_lookup VOP_LOOKUP_APV lookup namei kern_lstat lstat
syscall
948 100099 find mi_switch sleepq_switch sleepq_wait _sleep bwait bufwait breadn bread ffs_read
VOP_READ_APV ufs_readdir VOP_READDIR_APV getdiretries syscall Xint0x80_syscall
```

For someone who isn't intimately familiar with the kernel, this is really a nice feature for this tool.

I'm attaching the very crude interval patch just because it seems rude not to, but you probably either don't want it or will do it differently and either is perfectly fine. If you do implement it on your own, don't bother printing a header per screenful since it would be most useful for kstacks and that output usually spills over to multiple lines anyway.

```
--
Skip
diff -u src~/usr.bin/procstat/procstat.c src/usr.bin/procstat/procstat.c
--- src~/usr.bin/procstat/procstat.c 2007-11-27 10:23:39.000000000 -0500
+++ src/usr.bin/procstat/procstat.c 2007-11-28 07:01:23.000000000 -0500
@@ -106,13 +106,14 @@
main(int argc, char *argv[])
{
    struct kinfo_proc *kipp;
    - int ch, i, name[4], tmp;
    + int ch, i, name[4], tmp, interval;
    size_t len;
    long l;
    pid_t pid;
    char *dummy;

    - while ((ch = getopt(argc, argv, "abcfkhstv")) != -1) {
    + interval = 0;
    + while ((ch = getopt(argc, argv, "abcfkhstvw:")) != -1) {
    switch (ch) {
    case 'a':
    aflag = 1;
    @@ -150,6 +151,10 @@
    vflag = 1;
    break;

    + case 'w':
    + interval = atoi(optarg);
    + break;
    +
    case '?':
    default:
```

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```
usage();
@@ -166,6 +171,7 @@
/* Must specify at least one of -a and a list of pids. */
if (!aflag && argc < 1)
usage();
+loop:
if (aflag) {
name[0] = CTL_KERN;
name[1] = KERN_PROC;
@@ -233,5 +239,11 @@
/* Suppress header after first process. */
hflag = 1;
}
+
+ if (interval) {
+ sleep(interval);
+ goto loop;
+ }
+
exit(0);
}
```

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