实验报告 lab4-process

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CPU 运行截图

```
hitsz_zzx@22X:~/hpc_practice/lab4-process/ostep$ ps -ef|grep cpu
hitsz_z+   20129   17591 99 14:39 pts/4    00:01:35 ./cpu A
hitsz_z+   20683   20334 99 14:40 pts/5    00:00:50 ./cpu B
hitsz_z+   21312     755  0 14:40 pts/0    00:00:00 /bin/sh -c "/home/hitsz_zzx/.vscode-server/bin/4849ca9bdf9666755e
```

Pstree 运行截图

```
Child process CPU time: 16.333817 seconds
Parent process CPU time: 15.384868 seconds
Process tree:
systemd(1)─┬─agetty(246)
           ├─agetty(250)
           ├─cron(143)
           ├─dbus-daemon(156)
           ├─init-systemd(Ub(2)─┬─SessionLeader(646)───Relay(648)(647)─┬─cpptools+
           │                    │                                      └─sh(648)─+++
           │                    ├─SessionLeader(672)───Relay(674)(673)───node(674+
           │                    ├─SessionLeader(699)───Relay(707)(701)───node(707+
           │                    ├─init(7)───{init}(8)
           │                    ├─login(339)───bash(371)
           │                    └─{init-systemd(Ub}(9)
           ├─networkd-dispat(163)
           ├─rsyslogd(175)─┬─{rsyslogd}(223)
           │               ├─{rsyslogd}(224)
           │               └─{rsyslogd}(225)
           ├─snapd(187)─┬─{snapd}(213)
           │            ├─{snapd}(214)
           │            ├─{snapd}(215)
           │            ├─{snapd}(218)
           │            ├─{snapd}(219)
           │            ├─{snapd}(228)
           │            ├─{snapd}(232)
           │            ├─{snapd}(233)
           │            ├─{snapd}(234)
           │            ├─{snapd}(270)
           │            ├─{snapd}(271)
           │            ├─{snapd}(272)
           │            ├─{snapd}(313)
           │            ├─{snapd}(314)
           │            ├─{snapd}(316)
           │            ├─{snapd}(332)
           │            └─{snapd}(395)
           ├─snapfuse(73)─┬─{snapfuse}(74)
           │              └─{snapfuse}(75)
           ├─snapfuse(78)─┬─{snapfuse}(80)
           │              ├─{snapfuse}(81)
           │              ├─{snapfuse}(299)
           │              ├─{snapfuse}(301)
           │              └─{snapfuse}(382)
           ├─snapfuse(85)─┬─{snapfuse}(86)
           │              └─{snapfuse}(87)
           ├─snapfuse(92)─┬─{snapfuse}(93)
           │              └─{snapfuse}(96)
           ├─snapfuse(98)─┬─{snapfuse}(100)
           │              ├─{snapfuse}(101)
           │              ├─{snapfuse}(394)
           │              ├─{snapfuse}(3332)
           │              ├─{snapfuse}(3333)
           │              └─{snapfuse}(3403)
           ├─snapfuse(106)─┬─{snapfuse}(107)
```

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```
                               └─{snapfuse}(108)
        ├─snapfuse(109)─┬─{snapfuse}(110)
        │               ├─{snapfuse}(111)
        │               ├─{snapfuse}(302)
        │               └─{snapfuse}(303)
        ├─snapfuse(3625)─┬─{snapfuse}(3626)
        │                ├─{snapfuse}(3627)
        │                ├─{snapfuse}(6229)
        │                └─{snapfuse}(6237)
        ├─subiquity-serve(235)───python3.10(296)─┬─python3(421)
        │                                        ├─{python3.10}(422)
        │                                        ├─{python3.10}(6209)
        │                                        ├─{python3.10}(6212)
        │                                        ├─{python3.10}(6213)
        │                                        └─{python3.10}(6214)
        ├─systemd(365)───(sd-pam)(366)
        ├─systemd-journal(39)
        ├─systemd-logind(205)
        ├─systemd-resolve(118)
        ├─systemd-udevd(62)
        └─unattended-upgr(273)───{unattended-upgr}(300)
31.79user 0.03system 0:31.83elapsed 99%CPU (0avgtext+0avgdata 13976maxresident)k
0inputs+0outputs (0major+3374minor)pagefaults 0swaps
```

时间数据表格

	TIME
Real	31.73 99%CPU
User	31.63
sys	0.07
(User+sys)/Real	0.999