## Lab4

## **Infomations**

- 课程名:高性能计算
- 学期:2024秋
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## **Problems**

进程cpu利用率截图

PTD	USER	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+ COMMAND
46550		20	9	101096	99924		100.0	1.3	0:05.82 fork use
									<del>-</del>
46551	root	20	0	101096	99004	584 F	100.0	1.3	0:05.78 fork_use
1	root	20	0	167024	12704	8360 5	0.0	0.2	0:34.30 systemd
2	root	20	0	2476	1432	1320 5	0.0	0.0	0:00.00 init-systemd(Ub
8	root	20	0	2476	4	0 5	0.0	0.0	0:00.00 init
37	root	19	-1	31352	11704	10628 5	0.0	0.2	0:00.12 systemd-journal
65	root	20	0	23188	6692	4468 5	0.0	0.1	0:00.14 systemd-udevd
84	root	20	0	152992	176	20 5	0.0	0.0	0:00.00 snapfuse
89	root	20	0	153124	4556	212 5	0.0	0.1	0:00.00 snapfuse
91	root	20	0	377284	12912	196 5	0.0	0.2	0:00.41 snapfuse
99	root	20	0	152992	2248	52 5	0.0	0.0	0:00.00 snapfuse
104	root	20	0	153124	2256	56 5	0.0	0.0	0:00.00 snapfuse
107	root	20	0	153124	2228	28 9	0.0	0.0	0:00.00 snapfuse
116	root	20	0	152992	168	12 5	0.0	0.0	0:00.00 snapfuse

pstree截图

```
→ ostep git:(2024) X pstree
systemd 2*[agetty]
             —avahi-daemon——avahi-daemon
             -cron
             -dbus-daemon
              -init-systemd(Ub--SessionLeader--Relay(452)--5*[cpptools-srv--7*[{cpptools-srv}]]
-sh--sh--node--node--12*[{node-
                                                                                                                     -node--12*[{node}]
-node--cpptools--25*[{cpptools}]
-node--10*[{node}]
-11*[{node}]
                                                                                                                     -node---zsh
                                                                                                                               —zsh——pstree
—zsh——fork_use——fork_use
                                                                                                                             SessionLeader—Relay(18125)—node—6*[{node}]
—SessionLeader—Relay(18140)—node—6*[{node}]
—SessionLeader—Relay(18240)—sh—sh—node—sh
—6*[{node}]
                                                                                                                     -10*[{node}]
                                        —init——{init}
—login——zsh
                                        [init-systemd(Ub]
             —networkd-dispat
             -networku-dispat

-polkitd—2*[{polkitd}]

-rsyslogd—3*[{rsyslogd}]

-snapd—18*[{snapd}]

-7*[snapfuse—2*[{snapfuse}]]

-3*[snapfuse—5*[{snapfuse}]]
              -snapfuse---4*[{snapfuse}]
             -subiquity-serve-python3.10-python3
-5*[{python3.10}]
             —systemd——(sd-pam)
             —systemd-journal
              -systemd-logind
              -systemd-resolve
              -systemd-udevd
              —unattended-upgr——{unattended-upgr}
              -wpa_supplicant
```

## 时间数据

type	time
real	4.677s
user	4.66s
sys	0.01s

(user + sys)/real=0.9985