



Kerrighed port on SMP machines

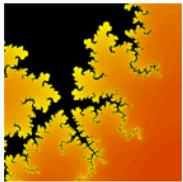




What's going on ?



- Bug squash party: krgltp
 - target: 1000 success tests
 - expect to complete in the next few weeks



- Use krgltp in a non-regression process



- Our hardware platform is not available
 - should be ok soon

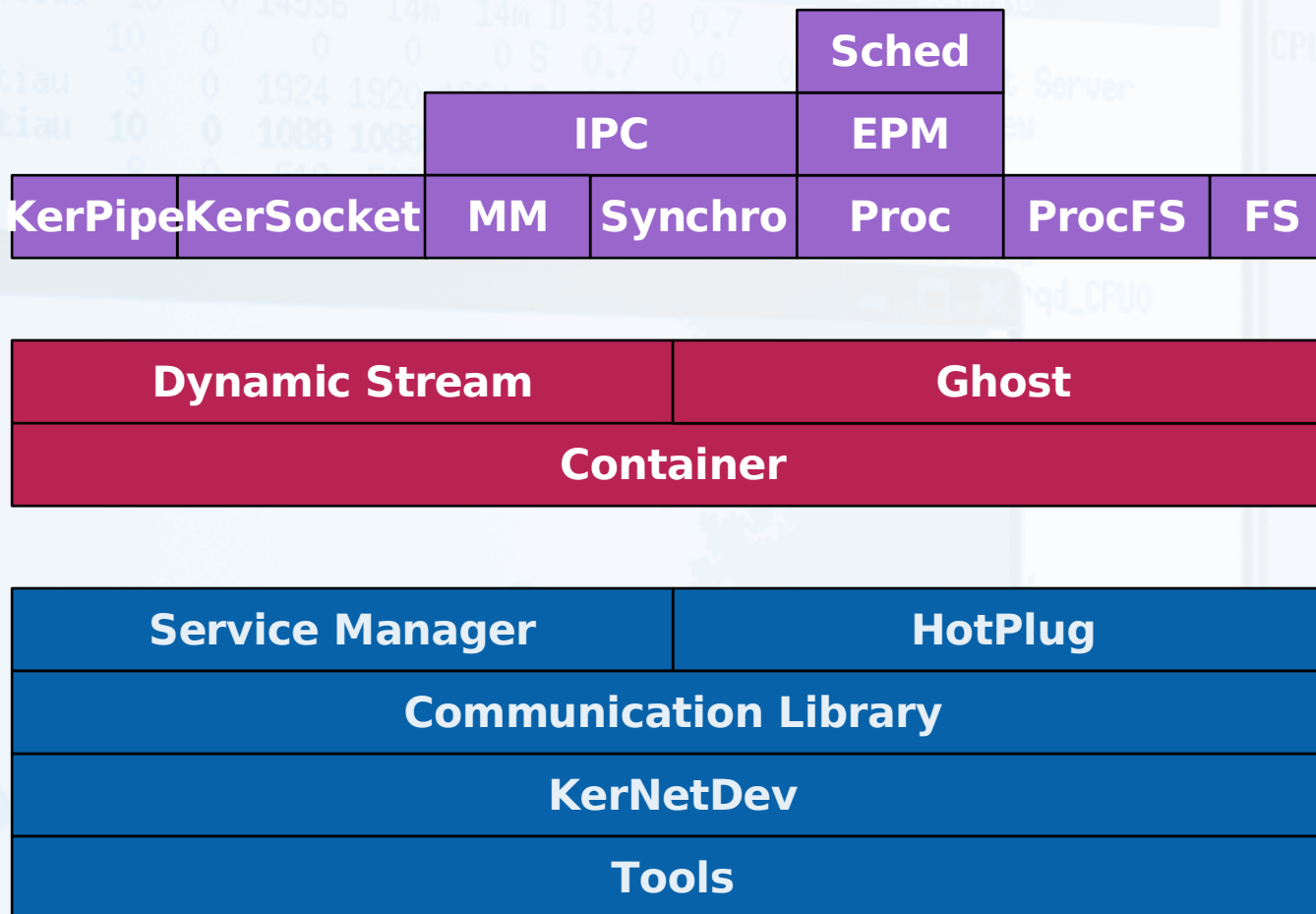


- Schedule to the last week of february
 - (26 Feb, 8am)



Kerrighed and SMP

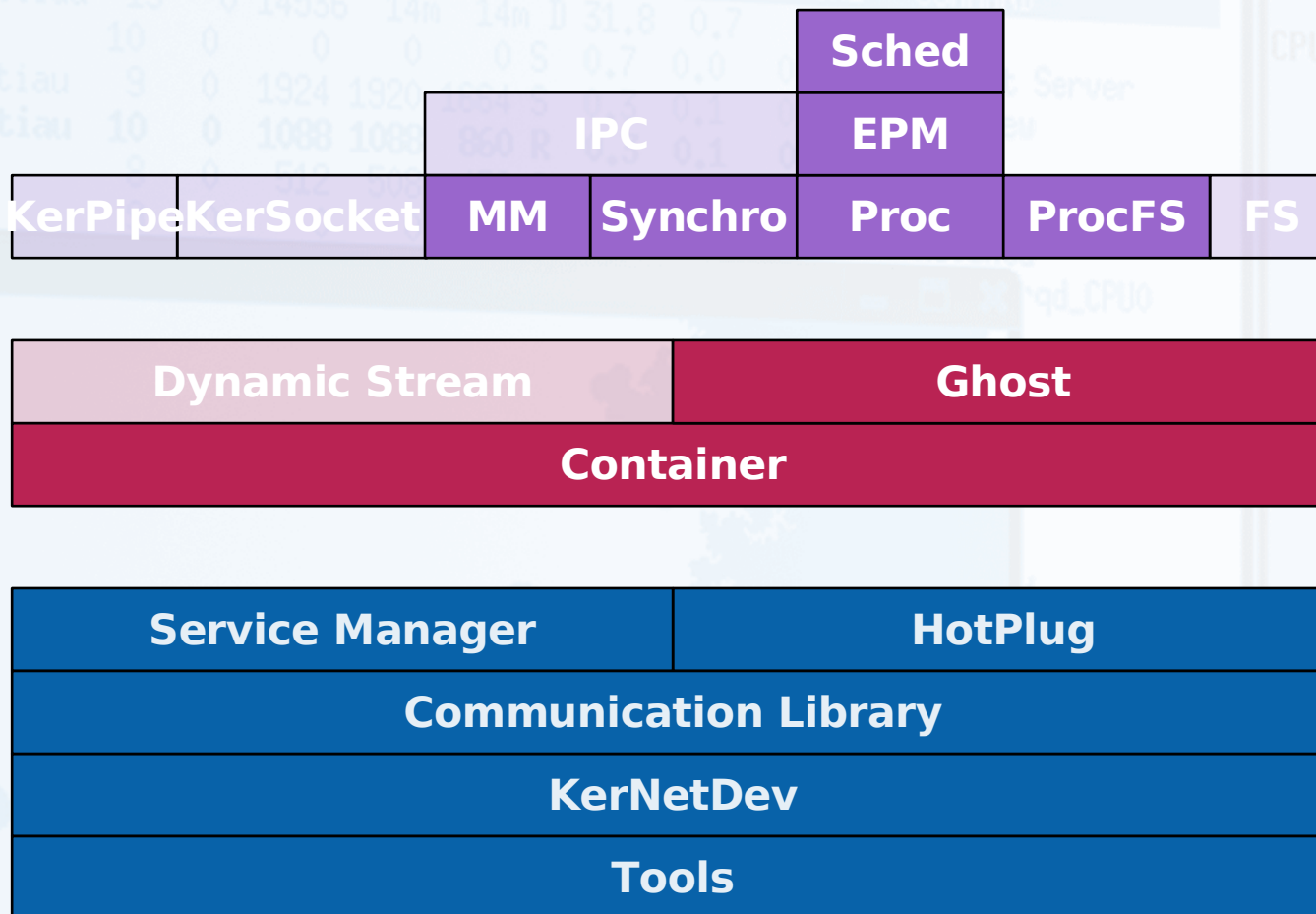
- Future development have to be SMP-safe





Kerrighed and SMP

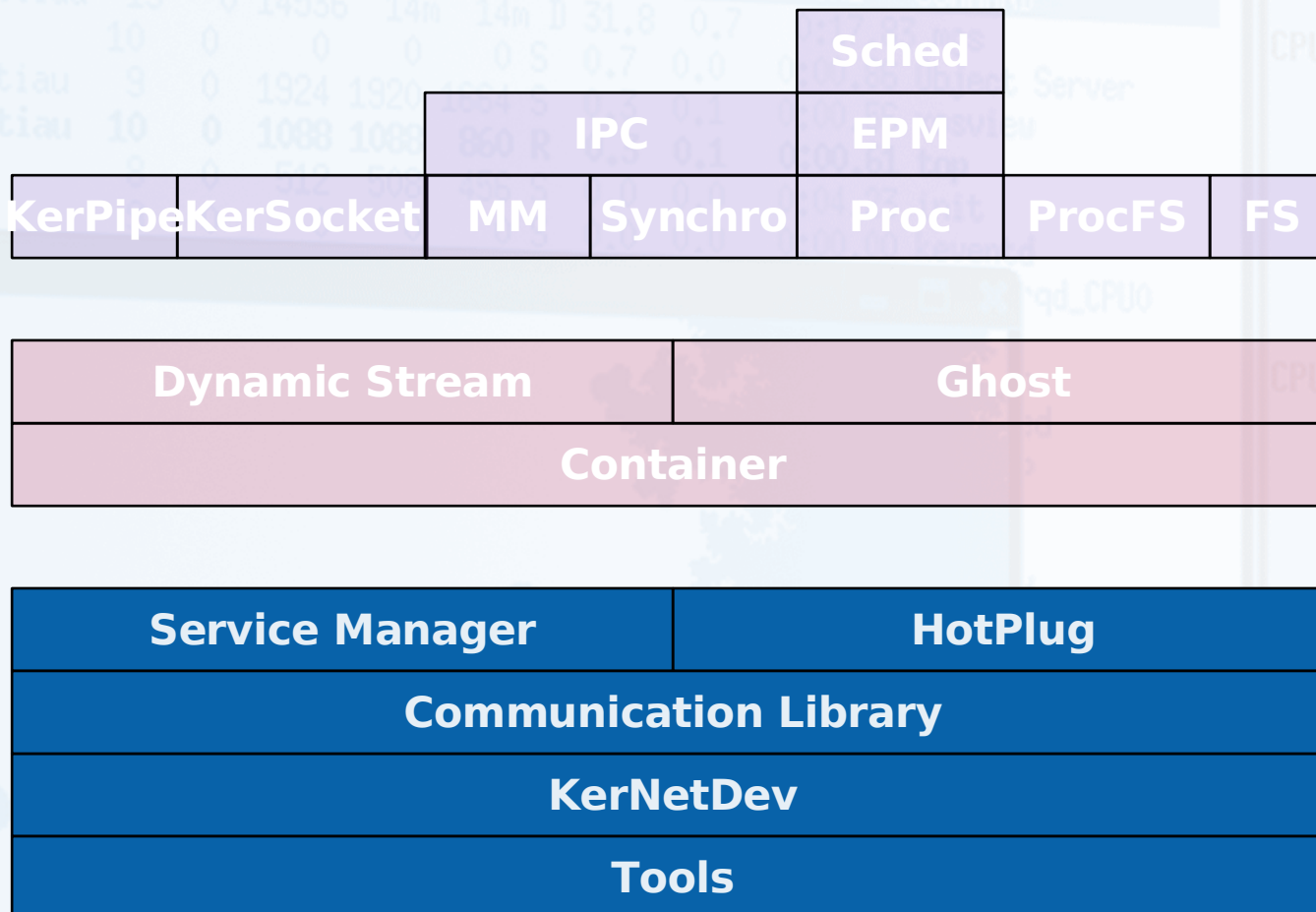
- Future development or rewrite have to be SMP-safe





Network layer and SMP

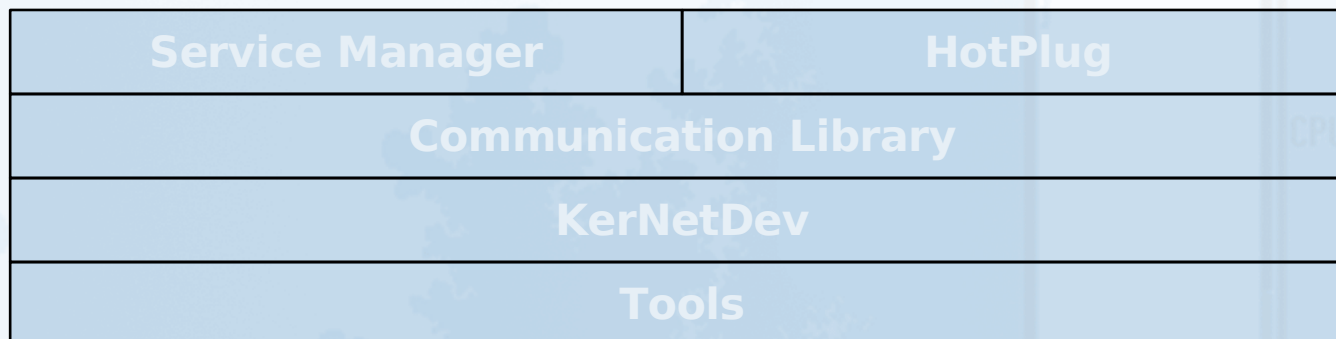
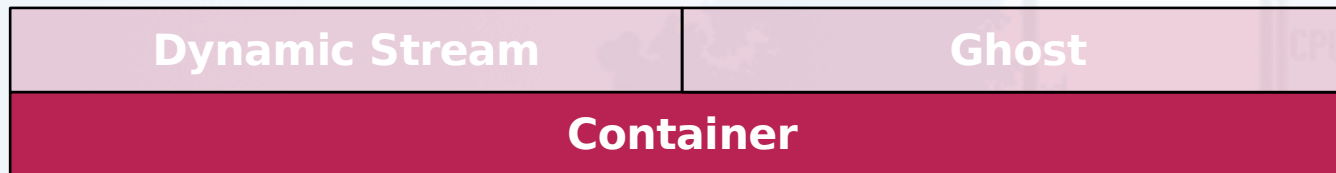
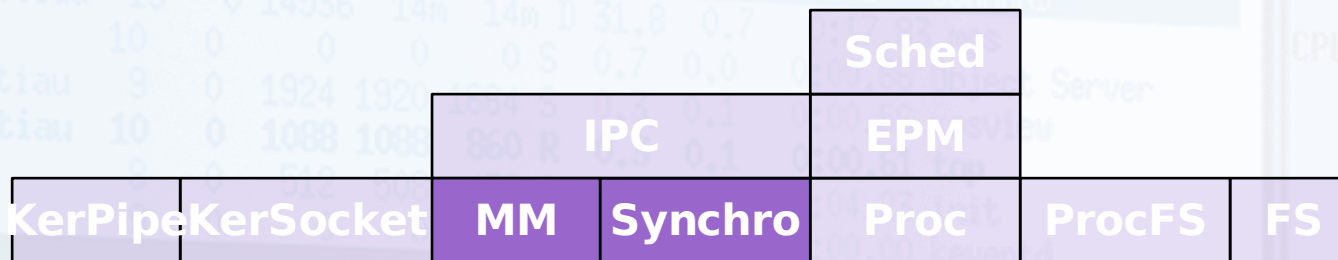
- Worked in SMP few years ago
- Need to check if it still ok





Data layer and SMP

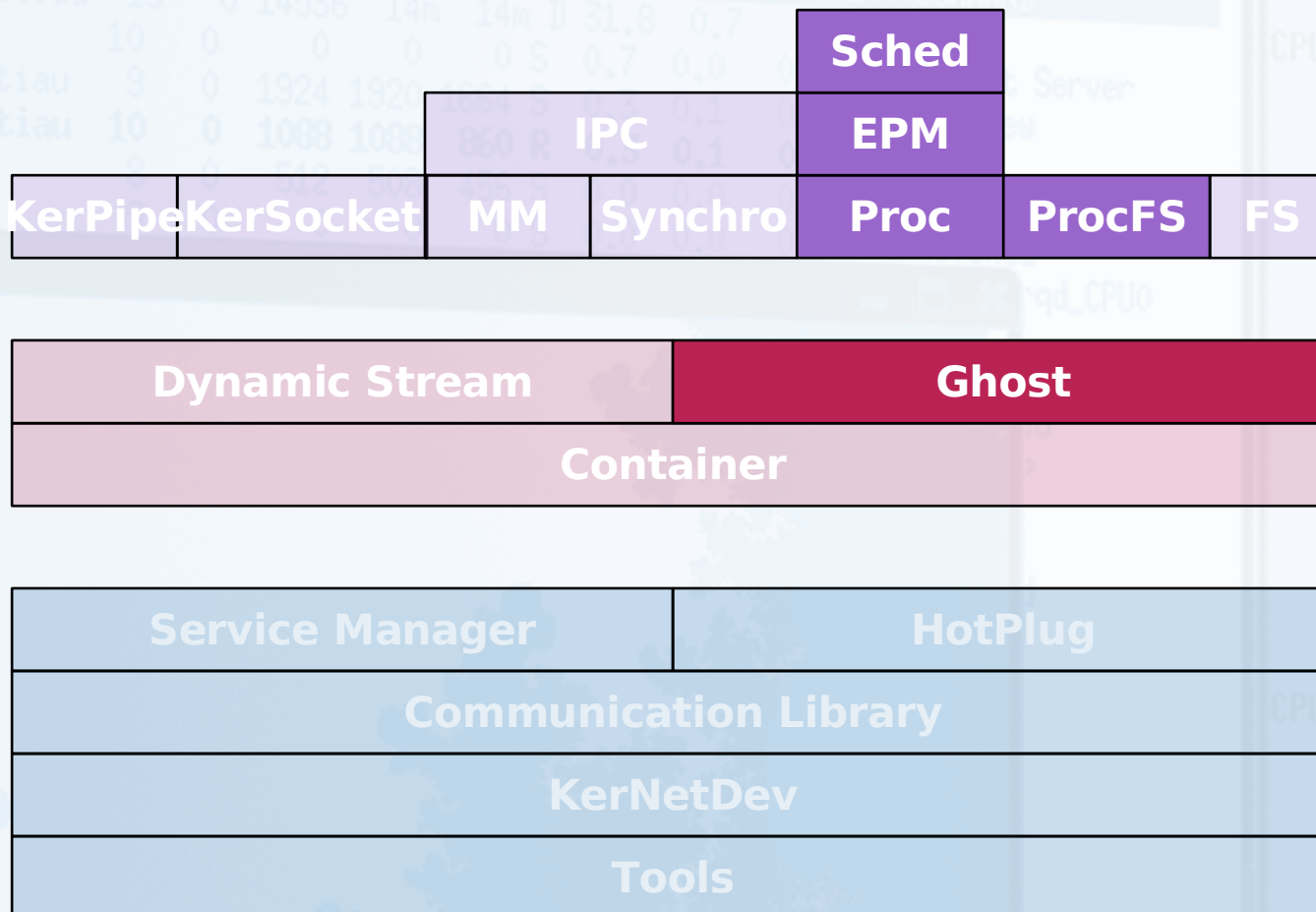
- no SMP-lock management at all
- need to check all the code





Process layer and SMP

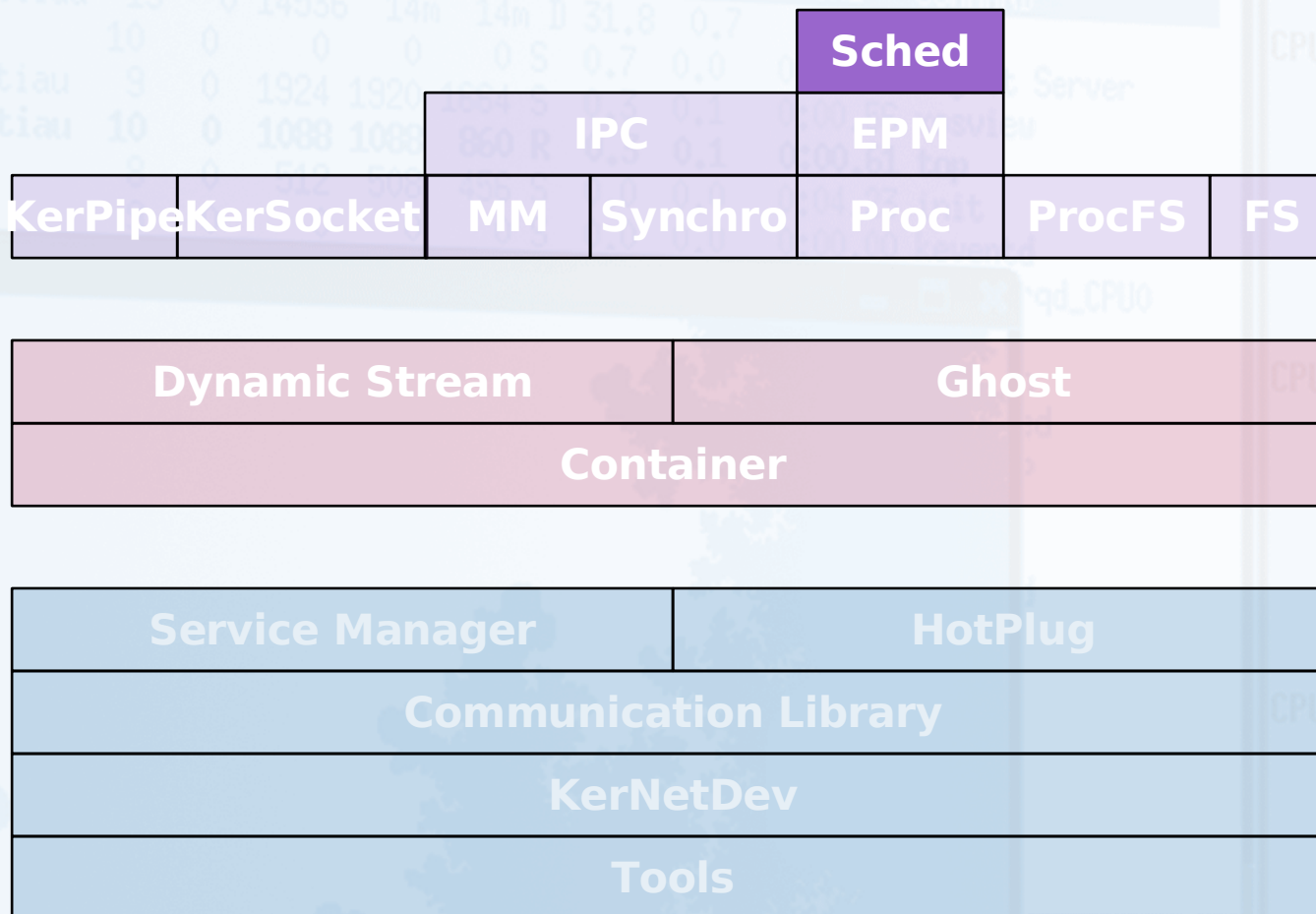
- nearly no SMP-lock management
- might require to rewrite some parts





Scheduler management

- designed with the idea of SMP
- Need to be tested





Pre-operation steps

- Cleanup the build process
 - Lower parts have to be independent from upper parts
- New linux kernel version
 - 2.6.16.39 ?
 - 2.6.20 ?



Steps to the SMP

- First step:
 - test the network layer / hotplug layer (start,stop mechanism)
 - check the data layer
 - check the regular process mechanisms
- Second step:
 - test the data layer with regular process operation
 - check enhanced process mechanisms (distant fork / migration)
- Third step:
 - test the enhanced process mechanisms
 - new bug squash party using krgltp



```
Cpu(s): 41.9% user, 7.0% system, 0.0% nice, 51.1% idle
Mem: 2059216k total, 341344k used, 1717872k free, 3688k buffers
Swap: 1028000k total, 0k used, 1028000k free, 78892k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME	COMMAND
230150	rlottiau	15	0	14536	14m	14m	D	31.8	0.7	0:17.83	mgs
99032	root	10	0	0	0	0	S	0.7	0.0	0:00.86	Object Server
99062	rlottiau	9	0	1924	1920	1664	S	0.3	0.1	0:00.56	xosview
99072	rlottiau	10	0	1088	1088	860	R	0.3	0.1	0:00.61	top
1	root	8	0	512	508	456	S	0.0	0.0	0:04.23	init
2	root	9	0	0	0	0	S	0.0	0.0	0:00.00	keventd

Discussion

