

LargeSMP WIP

- `cpumask_t` --> `cpuset_t`
- `svn://svn.freebsd.org/base/projects/largeSMP`
- `MAXCPU > 32`
- Affects all architectures, please test soon!
- AMD64, i386, powerpc, mips, arm, xen ...
- Group effort with many committers ongoing
 - Thank you for your help and attention on this

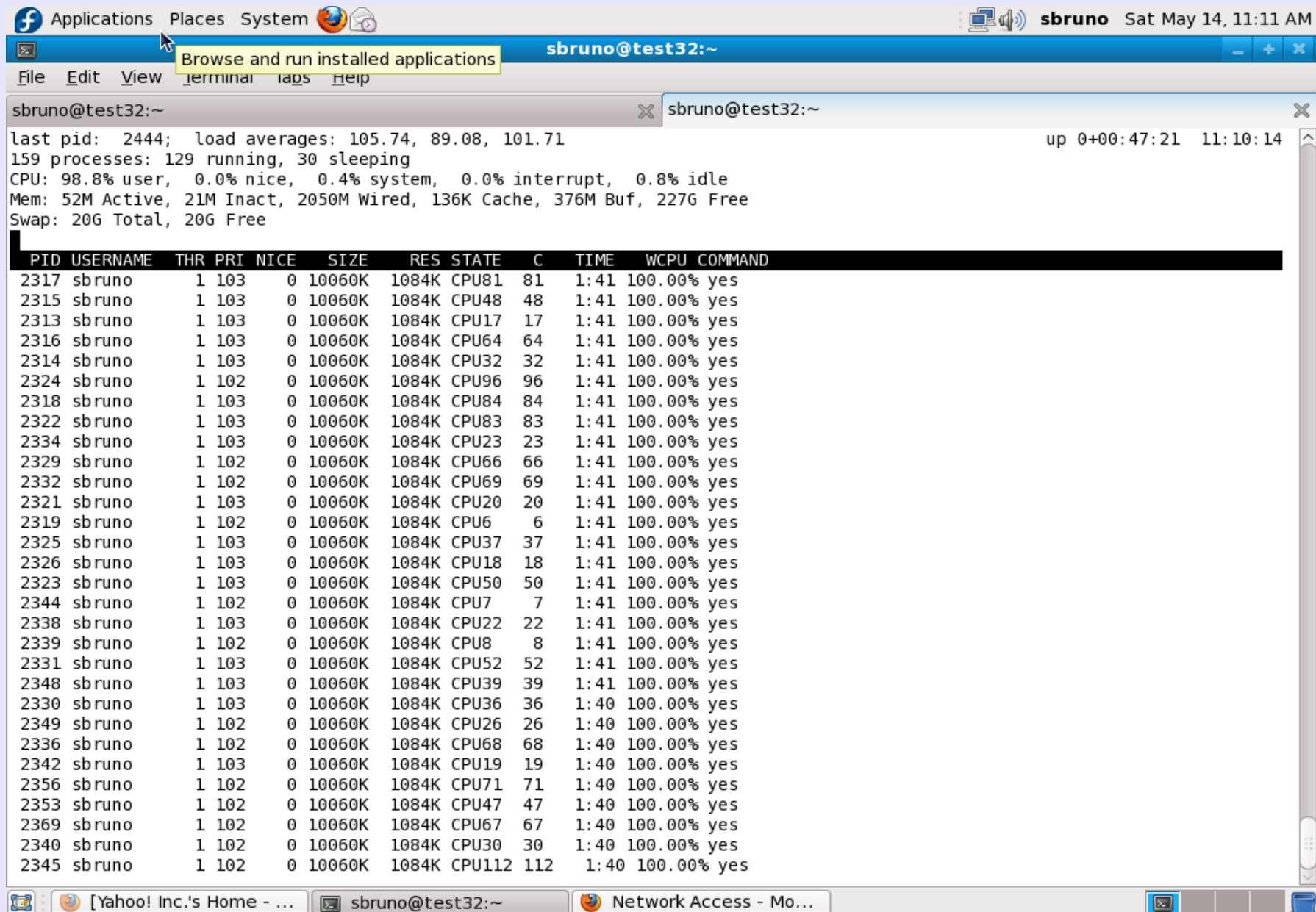


Maintainers, Check Your Code

- MAXCPU boundary checking
 - Libmemstat --> sbruno@freebsd.org
 - Coming soon to cause a mass buildworld
- Anything that needs to iterate CPUs may need to be reviewed.
- sun4v is being removed
- Cleanup required on pcpu masks
- Hitting before 9.0



LargeSMP Ready for Breakage



The screenshot shows a Linux desktop environment with a terminal window open. The terminal displays system statistics and a process list. The system statistics show a high load, with 159 processes running and 30 sleeping. The CPU usage is 98.8% user, 0.0% nice, 0.4% system, 0.0% interrupt, and 0.8% idle. The memory usage is 52M Active, 21M Inact, 2050M Wired, 136K Cache, 376M Buf, and 227G Free. The swap usage is 20G Total and 20G Free.

```
last pid: 2444; load averages: 105.74, 89.08, 101.71                up 0+00:47:21  11:10:14
159 processes: 129 running, 30 sleeping
CPU: 98.8% user,  0.0% nice,  0.4% system,  0.0% interrupt,  0.8% idle
Mem: 52M Active, 21M Inact, 2050M Wired, 136K Cache, 376M Buf, 227G Free
Swap: 20G Total, 20G Free
```

PID	USERNAME	THR	PRI	NICE	SIZE	RES	STATE	C	TIME	WCPU	COMMAND
2317	sbruno	1	103	0	10060K	1084K	CPU81	81	1:41	100.00%	yes
2315	sbruno	1	103	0	10060K	1084K	CPU48	48	1:41	100.00%	yes
2313	sbruno	1	103	0	10060K	1084K	CPU17	17	1:41	100.00%	yes
2316	sbruno	1	103	0	10060K	1084K	CPU64	64	1:41	100.00%	yes
2314	sbruno	1	103	0	10060K	1084K	CPU32	32	1:41	100.00%	yes
2324	sbruno	1	102	0	10060K	1084K	CPU96	96	1:41	100.00%	yes
2318	sbruno	1	103	0	10060K	1084K	CPU84	84	1:41	100.00%	yes
2322	sbruno	1	103	0	10060K	1084K	CPU83	83	1:41	100.00%	yes
2334	sbruno	1	103	0	10060K	1084K	CPU23	23	1:41	100.00%	yes
2329	sbruno	1	102	0	10060K	1084K	CPU66	66	1:41	100.00%	yes
2332	sbruno	1	102	0	10060K	1084K	CPU69	69	1:41	100.00%	yes
2321	sbruno	1	103	0	10060K	1084K	CPU20	20	1:41	100.00%	yes
2319	sbruno	1	102	0	10060K	1084K	CPU6	6	1:41	100.00%	yes
2325	sbruno	1	103	0	10060K	1084K	CPU37	37	1:41	100.00%	yes
2326	sbruno	1	103	0	10060K	1084K	CPU18	18	1:41	100.00%	yes
2323	sbruno	1	103	0	10060K	1084K	CPU50	50	1:41	100.00%	yes
2344	sbruno	1	102	0	10060K	1084K	CPU7	7	1:41	100.00%	yes
2338	sbruno	1	103	0	10060K	1084K	CPU22	22	1:41	100.00%	yes
2339	sbruno	1	102	0	10060K	1084K	CPU8	8	1:41	100.00%	yes
2331	sbruno	1	103	0	10060K	1084K	CPU52	52	1:41	100.00%	yes
2348	sbruno	1	103	0	10060K	1084K	CPU39	39	1:41	100.00%	yes
2330	sbruno	1	103	0	10060K	1084K	CPU36	36	1:40	100.00%	yes
2349	sbruno	1	102	0	10060K	1084K	CPU26	26	1:40	100.00%	yes
2336	sbruno	1	102	0	10060K	1084K	CPU68	68	1:40	100.00%	yes
2342	sbruno	1	103	0	10060K	1084K	CPU19	19	1:40	100.00%	yes
2356	sbruno	1	102	0	10060K	1084K	CPU71	71	1:40	100.00%	yes
2353	sbruno	1	102	0	10060K	1084K	CPU47	47	1:40	100.00%	yes
2369	sbruno	1	102	0	10060K	1084K	CPU67	67	1:40	100.00%	yes
2340	sbruno	1	102	0	10060K	1084K	CPU30	30	1:40	100.00%	yes
2345	sbruno	1	102	0	10060K	1084K	CPU112	112	1:40	100.00%	yes

