

?????? - Sipp

??????sipp -sn uac -d 60000 -i 192.168.1.137 -s 2005 192.168.1.1 -l 18

???????

1. ?????? 2 ~ 18 ??????????
2. ??????????????????????
3. ?????????? 30 ???
4. ????????????????? extension????????????????? dial plan ????

Dial Plan:

```
; for sipp testing
[custom-sipp]
exten => 2005,1,Answer
exten => 2005,2,Background(tt-monkeys)
exten => 2005,3,Goto(2)
```

??????

Simultaneous Calls = 20

The screenshot shows two terminal windows on an Ubuntu VM. The left window displays sipp statistics for 20 simultaneous calls, including call creation counts, response times, and traffic adjustment information. The right window shows a command-line interface where a dial plan is being tested, with logs of SIP messages and command executions.

```
alang@ubuntu-vm: ~/mytmp/sipp -Terminator
alang@ubuntu-vm: ~/mytmp/sipp

Statistics Screen ..... [1-9]: Change Screen --
Start Time | 2010-11-13 19:27:33
Last Reset Time | 2010-11-13 20:03:57
Current Time | 2010-11-13 20:03:58

Counter Name | Periodic value | Cumulative value
---|---|---
Elapsed Time | 00:00:01:004 | 00:36:25:492
Call Rate | 0.000 cps | 0.339 cps
---|---|---
Incoming call created | 0 | 0
Outgoing call created | 0 | 740
Total Call created | 0 | 740
Current Call | 20 |
Successful call | 0 | 734
Failed call | 0 | 6
---|---|---
Response Time 1 | 00:00:00:000 | 00:00:00:024
Call Length | 00:00:00:000 | 00:01:00:047
---- [-|-"/]: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic

alang@ubuntu-vm: ~/mytmp/sipp
top - 22:04:08 up 1:00, 3 users, load average: 0.62, 0.79, 0.79
Tasks: 73 total, 1 running, 72 sleeping, 0 stopped, 0 zombie
Cpu(s): 1.7%us, 1.0%sy, 0.0%ni, 97.0%id, 0.0%wa, 0.0%hi, 0.3%si, 0.0%st
Mem: 515888k total, 211956k used, 303932k free, 34888k buffers
Swap: 224868k total, 0k used, 224868k free, 102496k cached
[...]
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
915 asterisk 20 0 47052 18m 7256 5 1.3 0.0 7:06.68 asterisk
3838 root -2 2536 1168 920 R 1.0 0.2 0:13.29 top
964 asterisk 20 0 12100 8616 1864 S 0.7 1.7 1:13.51 op.server.pl
1 root 20 0 2004 696 698 S 0.0 0.1 0:00.64 init
2 root 15 -5 0 0 0 0 0.5 0.0 0.0 0:00.00 kthreadd
3 root 15 -5 0 0 0 0 0.5 0.0 0.0 0:00.00 ksoftirqd/0
4 root 15 -5 0 0 0 0 0.5 0.0 0.0 0:00.00 watchdog/0
[...]
```

Simultaneous Calls = 30

```

alang@ubuntu-vm: ~/mytmp/sipp - Terminator
Statistics Screen ..... [1-9]: Change Screen ...
Start Time | 2010-11-15 16:00:00
Last Reset Time | 2010-11-15 16:38:53
Current Time | 2010-11-15 16:38:54
Counter Name | Periodic value | Cumulative value
Elapsed Time | 00:00:00:999 | 00:30:19:032
Call Rate | 0.000 cps | 0.511 cps
Incoming call created | 0 | 0
Outgoing call created | 0 | 930
Total Call created | 0 | 930
Current Call | 30 |
Successful call | 0 | 900
Failed call | 0 | 0
Response Time 1 | 00:00:00:000 | 00:00:00:018
Call Length | 00:00:00:000 | 00:01:00:037
--- [+/-][!]/: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic

top: 19:39:52 up 39 min, 3 users, load average: 0.21, 0.18, 0.44
Tasks: 68 total, 1 running, 67 sleeping, 0 stopped, 0 zombie
Cpu(s): 43 %us, 7.0%sy, 0.0%ni, 49.7%id, 0.0%wa, 0.0%hi, 1.0%si, 0.0%st
Mem: 315880K total, 152272K used, 363616K free, 3220K buffers
Swap: 224868K total, 0K used, 224868K free, 82324K cached
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
975 asterisk 20 0 44838 168 7224 5 49.6 3.3 2:48:64 asterisk
1028 asterisk 20 0 12108 8604 1864 5 0.7 1.7 0:48:03 op.server.pl
1223 mysql 20 0 1256 176 5124 5 0.3 3.6 0:06:62 mysqld
2042 root 20 0 2536 1156 924 8 0.3 0.2 0:13:18 top
1 root 20 0 2004 696 688 5 0.0 0.1 0:00:03 init
2 root 15 -5 0 0 0 0 0.0 0.0 0:00:00 kthreadd
3 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 ksoftirqd/0
4 root RT -5 0 0 0 0 0.5 0.0 0:00:00 watchdog/0
5 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 events/0
6 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 cpuset
7 root 15 -5 0 0 0 0 0.5 0.0 0:00:01 khelper

```

Simultaneous Calls = 40

```

alang@ubuntu-vm: ~ - Terminator
Statistics Screen ..... [1-9]: Change Screen ...
Start Time | 2010-11-15 16:48:49
Last Reset Time | 2010-11-15 17:19:31
Current Time | 2010-11-15 17:19:32
Counter Name | Periodic value | Cumulative value
Elapsed Time | 00:00:01:003 | 00:30:42:558
Call Rate | 0.000 cps | 0.673 cps
Incoming call created | 0 | 0
Outgoing call created | 0 | 1240
Total Call created | 0 | 1240
Current Call | 40 |
Successful call | 0 | 1187
Failed call | 0 | 23
Response Time 1 | 00:00:00:000 | 00:00:00:035
Call Length | 00:00:00:000 | 00:01:00:063
--- [+/-][!]/: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic

top: 19:29:38 up 1:26, 3 users, load average: 1.31, 0.00, 2.32
Tasks: 68 total, 1 running, 67 sleeping, 0 stopped, 0 zombie
Cpu(s): 1.3%us, 0.0%sy, 0.0%ni, 98.7%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 515880K total, 256256K used, 259632K free, 3988K buffers
Swap: 224868K total, 0K used, 224868K free, 181900K cached
PID 0558 PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
2062 root 20 0 2536 1153 920 8 1.0 0.2 0:13:35 top
1223 mysql 20 0 1256 176 5124 5 0.3 3.6 0:13:04 mysqld
1 root 20 0 2004 696 688 5 0.0 0.1 0:00:03 init
2 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 kthreadd
3 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 ksoftirqd/0
4 root RT -5 0 0 0 0 0.5 0.0 0:00:00 watchdog/0
5 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 events/0
6 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 cpuset
7 root 15 -5 0 0 0 0 0.5 0.0 0:00:01 khelper
10 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 netns
11 root 15 -5 0 0 0 0 0.5 0.0 0:00:00 async/mgr

```

Simultaneous Calls = 50

Statistics Screen ----- [1-9]: Change Screen ---									
Start Time	2018-11-15 17:22:09	Periodic value	Cumulative value						
Last Reset Time	2018-11-15 18:18:41								
Current Time	2018-11-15 18:18:42								
Counter Name	Periodic value	Cumulative value							
Elapsed Time	00:00:01:003	00:56:33:018							
Call Rate	0.000 cps	0.840 cps							
Incoming call created	0	0							
Outgoing call created	0	2851							
Total Call created		2851							
Current Call	50								
Successful call	0	2741							
Failed call	0	60							
Response Time 1	00:00:00:000	00:00:00:056							
Call Length	00:00:00:000	00:01:00:069							
--- [+ -* /]: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic ---									
top - 20:19:41 up 2:19, 3 users, load average: 4.52, 5.25, 5.30 Tasks: 67 total, 1 running, 66 sleeping, 0 stopped, 0 zombie Cpu(s): 24.7%us, 9.3%sy, 0.0%ni, 59.6%id, 0.0%wa, 1.0%hi, 2.6%si, 0.0%st Mem: 515880K total, 266596K used, 249292K free, 39960K buffers Swap: 224868K total, 0K used, 224868K free, 198160K cached									
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND									
975 asterisk	20	0	51744	198	7224	5 40.5	3.9	30:33:12	asterisk
5963 root	20	0	2536	1152	920	8 1.3	0.2	0:43:12	top
1 root	20	0	2004	696	680	5 0.0	0.1	0:00:03	init
2 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	kthreadd
3 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	ksftfrrqd/0
4 root	RT	-5	0	0	0	5 0.0	0.0	0:00:00	watchdog/0
5 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	events/0
6 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	cpuset
7 root	15	-5	0	0	0	5 0.0	0.0	0:00:01	khelper
10 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	netns
11 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	async/mgr
PlugPBX:~#									
10.1.1.38 sipp 2819-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2842-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2806-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2810-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2846-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2813-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2809-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2817-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2827-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2849-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2836-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2839-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2810-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2825-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2851-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2834-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2845-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2821-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2805-6994@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 2830-6994@10.1. 0x4 (ulaw) No R 50 active SIP dialogs									

Simultaneous Calls = 60

Statistics Screen ----- [1-9]: Change Screen ---									
Start Time	2018-11-15 18:22:23	Periodic value	Cumulative value						
Last Reset Time	2018-11-15 18:52:46								
Current Time	2018-11-15 18:52:47								
Counter Name	Periodic value	Cumulative value							
Elapsed Time	00:00:01:012	00:30:23:750							
Call Rate	0.9000 cps	1.020 cps							
Incoming call created	0	0							
Outgoing call created	1	1860							
Total Call created		1860							
Current Call	60								
Successful call	1	1718							
Failed call	0	82							
Response Time 1	00:00:00:000	00:00:00:108							
Call Length	00:01:04:054	00:01:00:157							
--- [+ -* /]: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic ---									
top - 20:51:46 up 2:51, 3 users, load average: 8.62, 7.18, 6.81 Tasks: 67 total, 1 running, 66 sleeping, 0 stopped, 0 zombie Cpu(s): 47.0%us, 9.2%sy, 0.0%ni, 49.8%id, 0.0%wa, 0.7%hi, 2.6%si, 0.0%st Mem: 515880K total, 273148K used, 242740K free, 4068K buffers Swap: 224868K total, 0K used, 224868K free, 195492K cached									
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND									
975 asterisk	20	0	54496	208	7224	5 59.5	4.1	43:27:39	asterisk
1828 asterisk	20	0	12100	8636	1864	5 0.7	2.7	7:40:41	sp_server.pl
5963 root	20	0	2536	1152	920	8 0.3	0.2	1:00:55	top
1 root	20	0	2004	696	680	5 0.0	0.1	0:00:03	init
2 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	kthreadd
3 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	ksftfrrqd/0
4 root	RT	-5	0	0	0	5 0.0	0.0	0:00:00	watchdog/0
5 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	events/0
6 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	cpuset
7 root	15	-5	0	0	0	5 0.0	0.0	0:00:01	khelper
10 root	15	-5	0	0	0	5 0.0	0.0	0:00:00	netns
PlugPBX:~#									
10.1.1.38 sipp 1622-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1628-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1645-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1666-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1630-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1662-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1641-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1635-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1626-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1671-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1668-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1649-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1640-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1655-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1652-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1623-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1667-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1644-7551@10.1. 0x4 (ulaw) No R 10.1.1.38 sipp 1646-7551@10.1. 0x4 (ulaw) No R 50 active SIP dialogs									

Simultaneous Calls = 70

```
along@ubuntu-vm: ~ - Terminator
----- Statistics Screen ----- [1-9]: Change Screen --
Start Time | 2010-11-15 18:58:56
Last Reset Time | 2010-11-15 19:30:33
Current Time | 2010-11-15 19:30:34
----- Counter Name | Periodic value | Cumulative value -----
Elapsed Time | 00:00:01:000 | 00:31:37:987
Call Rate | 0.000 cps | 1.192 cps
----- Incoming call created | 0 | 0
Outgoing call created | 0 | 2262
Total Call created | 2262 | 2262
Current Call | 70 |
----- Successful call | 0 | 1984
Failed call | 0 | 208
----- Response Time 1 | 00:00:00:000 | 00:00:00:236
Call Length | 00:00:00:000 | 00:00:59:736
----- [+|-|*|/]: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic ----

top - 21:31:24 up 9:31, 3 users, load average: 10.31, 10.69, 10.08
Tasks: 74 total, 24 running, 72 sleeping, 0 stopped, 0 zombie
Cpu(s): 65.9%us, 29.1%sy, 0.8%ni, 0.0%id, 0.0%wa, 1.0%hi, 3.7%si, 0.0%st
Mem: 515880K total, 289684K used, 226204K free, 4012K buffers
Swap: 224868K total, 0K used, 224868K free, 201840K cached
----- PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND -----
 975 asterisk 20  0 58388 218 7224 5 94.9 4.4 00:38:38 asterisk
1028 asterisk 20  0 12100 8644 1864 R 7.3 1.7 10:18:52 op.server.pl
5963 root    20  0 2536 1152 920 R 1.3 0.2 1:17:74 top
19822 root    20  0 9380 6604 1864 S 1.0 1.3 0:00:42 munin-node
19833 postfix 20  0 1652 500 444 S 0.3 0.1 0:00:01 postfix_mailque
 1 root    20  0 2004 696 688 S 0.0 0.1 0:00:03 init
 2 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 kthreadd
 3 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 ksftfirqd/0
 4 root    RT -5 0 0 0 0 0.5 0.0 0:00:00 watchdogd/0
 5 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 events/0
 6 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 cpuset
----- 10.1.1.38 sipp 2069-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2071-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2119-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2058-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2080-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2072-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2092-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2097-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2077-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2070-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2099-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2110-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2062-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2095-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2063-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2120-7853@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2059-7853@10.1. 0x4 (slow) No R
70 active SIP dialogs
PlugPBX:<#>
```

Simultaneous Calls = 80 (???????????)

```
along@ubuntu-vm: ~ - Terminator
----- Statistics Screen ----- [1-9]: Change Screen --
Start Time | 2010-11-15 19:33:53
Last Reset Time | 2010-11-15 20:04:09
Current Time | 2010-11-15 20:04:10
----- Counter Name | Periodic value | Cumulative value -----
Elapsed Time | 00:00:01:005 | 00:30:17:783
Call Rate | 1.990 cps | 1.461 cps
----- Incoming call created | 0 | 0
Outgoing call created | 2 | 2656
Total Call created | 2656 | 2656
Current Call | 80 |
----- Successful call | 0 | 1516
Failed call | 2 | 1060
----- Response Time 1 | 00:00:00:277 | 00:00:01:109
Call Length | 00:01:07:409 | 00:00:53:866
----- [+|-|*|/]: Adjust rate --- [q]: Soft exit --- [p]: Pause traffic ----

top - 22:05:08 up 4:04, 3 users, load average: 10.92, 12.46, 11.87
Tasks: 77 total, 4 running, 73 sleeping, 0 stopped, 0 zombie
Cpu(s): 58.8%us, 30.3%sy, 1.8%ni, 0.0%id, 0.0%wa, 3.0%hi, 5.5%si, 0.0%st
Mem: 515880K total, 300100K used, 215788K free, 4026K buffers
Swap: 224868K total, 0K used, 224868K free, 209492K cached
----- PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND -----
 975 asterisk 20  0 63326 246 7224 5 99.3 4.6 0:04:42 op.asterisk
1028 asterisk 20  0 12100 8716 1864 R 7.2 1.7 11:55:38 op.server.pl
22964 munin 30  0 15200 6944 3288 R 0.9 1.0 0:02:74 munin-graph
33371 munin 30  0 14936 5964 2468 R 0.9 1.2 0:01:00 munin-graph
5963 root    20  0 2536 1160 920 R 0.6 0.2 1:00:00 top
1223 mysql   20  0 1206 17n 5124 S 0.3 0.6 0:39:73 mysqld
 1 root    20  0 2004 696 688 S 0.0 0.1 0:00:00 init
 2 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 kthreadd
 3 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 ksftfirqd/0
 4 root    RT -5 0 0 0 0 0.5 0.0 0:00:00 watchdogd/0
 5 root    15 -5 0 0 0 0 0.5 0.0 0:00:00 events/0
----- 10.1.1.38 sipp 2457-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2516-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2469-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2527-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2528-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2481-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2513-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2500-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2510-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2460-8208@10.1. 0x0 (nothing) No (d) R
10.1.1.38 sipp 2459-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 228-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2511-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2509-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2482-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2468-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2526-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2475-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2518-8208@10.1. 0x4 (slow) No R
10.1.1.38 sipp 2503-8208@10.1. 0x4 (slow) No R
83 active SIP dialogs
PlugPBX:<#>
```