

Basic performance test of IX100 with SIPp

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This paper is to give users some basic test information about IX100. The test tools are:

1. Asterisk(asterisk-1.4.21.1) and zaptel (zaptel-1.4.11)
2. OpenVox IX100(Alix 2C2)
3. SIPp (3.0)
4. Voyage-linux (2.6.23-486-voyage).

Here are the results of the test:

```
----- Statistics Screen ----- [1-9]: Change Screen --
Start Time      | 2008-07-29  17:22:25:087  1217323345.087183
Last Reset Time | 2008-07-29  17:52:34:092  1217325154.092252
Current Time    | 2008-07-29  17:52:35:062  1217325155.062947
-----+-----+-----
Counter Name   | Periodic value           | Cumulative value
-----+-----+-----
Elapsed Time   | 00:00:00:970             | 00:30:09:975
Call Rate      | 2.062 cps                 | 4.893 cps
-----+-----+-----
Incoming call created | 2                         | 8857
OutGoing call created | 0                         | 0
Total Call created  |                           | 8857
Current Call      | 30                        |
-----+-----+-----
Successful call   | 0                         | 8743
Failed call      | 0                         | 84
-----+-----+-----
Response Time 1  | 00:00:00:016             | 00:00:00:123
Call Length     | 00:00:03:651             | 00:00:05:808
-----+-----+-----
Test Terminated -----

2008-07-29      17:52:35:062      1217325155.062329: Aborting call with Call-Id '7cbbc
sipp: There were more errors, enable -trace_err to log them.
```

```

----- Statistics Screen ----- [1-9]: Change Screen --
Start Time      | 2008-07-29 17:22:28:493 | 1217323348.493995
Last Reset Time | 2008-07-29 17:53:17:498 | 1217325197.498679
Current Time    | 2008-07-29 17:53:18:289 | 1217325198.289809
-----
Counter Name    | Periodic value          | Cumulative value
-----
Elapsed Time    | 00:00:00:791           | 00:30:49:795
Call Rate      | 0.000 cps              | 4.778 cps
-----
Incoming call created | 0                       | 0
OutGoing call created | 0                       | 8839
Total Call created  |                          | 8839
Current Call      | 20                      |
-----
Successful call  | 0                       | 8799
Failed call      | 0                       | 20
-----
Response Time 1  | 00:00:00:000           | 00:00:03:268
Call Length     | 00:00:19:553           | 00:00:03:673
-----
----- Test Terminated -----
2008-07-29 17:53:18:288 1217325198.288936: Aborting call with Call-Id '8839-4124@192.168.2.110'.
sipp: There were more errors, enable -trace_err to log them.

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
5695	root	20	0	2224	1084	856	R	0.7	0.4	0:43.16	top
25953	root	20	0	37632	16m	4932	S	0.3	6.5	2:16.57	asterisk
1	root	20	0	1940	652	564	S	0.0	0.3	0:01.76	init
2	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	ksoftirqd/0
4	root	15	-5	0	0	0	S	0.0	0.0	0:01.20	events/0
5	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	khelper
36	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	kblockd/0
41	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	ata/0
42	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	ata_aux
44	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	kseriod
81	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pdflush
82	root	20	0	0	0	0	S	0.0	0.0	0:00.05	pdflush
83	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	kswapd0
84	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	aio/0
708	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	kpsmoused
711	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	rpciod/0
1498	root	15	-5	0	0	0	S	0.0	0.0	0:00.00	khubd
1844	root	16	-4	2176	588	340	S	0.0	0.2	0:00.58	udev
2855	daemon	20	0	1680	352	272	S	0.0	0.1	0:00.00	portmap
2934	root	20	0	1724	700	572	S	0.0	0.3	0:00.13	syslogd
2940	root	20	0	1576	376	308	S	0.0	0.1	0:00.00	klogd
2948	dnsmasq	20	0	2068	768	636	S	0.0	0.3	0:00.06	dnsmasq
2977	root	20	0	1736	552	464	S	0.0	0.2	0:00.00	pptpd
2984	root	20	0	4852	1068	748	S	0.0	0.4	0:00.00	sshd
3008	root	20	0	2192	884	708	S	0.0	0.3	0:00.05	cron
3016	root	-2	0	1620	1620	1352	S	0.0	0.6	0:02.59	watchdog
3045	root	20	0	2660	1168	920	S	0.0	0.5	0:00.02	login
3049	root	20	0	3600	2504	1296	S	0.0	1.0	0:00.73	bash
3073	root	20	0	7784	2388	1932	S	0.0	0.9	0:04.60	sshd
3076	root	20	0	3676	2576	1296	S	0.0	1.0	0:00.74	bash
3218	root	20	0	3676	2576	1296	S	0.0	1.0	0:00.76	bash
4975	root	20	0	1924	692	552	T	0.0	0.3	0:00.00	vi
5274	root	20	0	7624	2368	1932	S	0.0	0.9	0:05.98	sshd
5277	root	20	0	3676	2580	1296	S	0.0	1.0	0:00.74	bash
5318	root	20	0	7796	2416	1920	S	0.0	0.9	0:01.39	sshd
5321	root	20	0	4156	1324	972	S	0.0	0.5	0:00.79	sftp-server
5336	root	20	0	7788	2432	1920	S	0.0	0.9	0:01.41	sshd
5339	root	20	0	4308	1336	972	S	0.0	0.5	0:00.81	sftp-server
13097	root	-2	0	0	0	0	Z	0.0	0.0	0:00.00	watchdog <defunct>

The scenario is that the SIPp keeps calling asterisk server in 30 minutes. The call is conducted without codec transcoding. Call of the failure rate is less than 1.5% and CPU consumption at peak point is less 5%. In conclusion, the performance of IX100 should be good and result should be accepted.