UC300 Performance Test

➢ Test Platform

CPU	RAM	Operation System	Kernel Version	Asterisk Version
Z3735G	1G	CentOS 7 64 bit	3.10.0	11.15.0

➢ Test Method

There are two Asterisk servers, A and B. We use WinSIP to send calls to Server A, then the calls will be transferred to UC300 for transcoding. After that, the UC300 will direct all calls to Sever B for playing audio back.
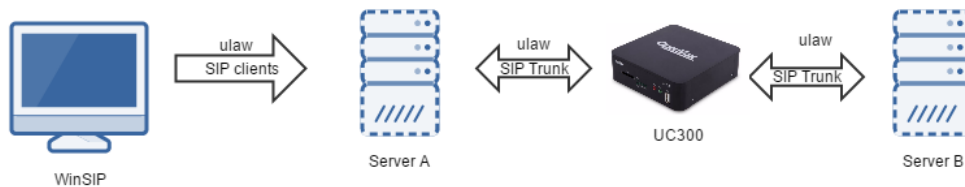
➢ Test Result

Codec	Concurrent calls	Duration (h)	Voice Quality	CPU & Mem Usage
ulaw	300	62	Voice clear	CPU 51.3%id; MEM 15.2%id
g729	100	48	Voice clear	CPU 47.4%id; MEM 11.1%id

➢ Relevant Information

Codec	Item	Screenshot	Memo

ulaw	CPU Usage	Mem: 759860K used, 149236K free, 52980K shrd, 45636K buff, 103616K cached
		CPU: 20.2% usr 19.9% sys 0.0% nic 51.3% idle 5.2% io 0.0% irq 3.0% sirq
		Load average: 5.48 6.06 6.36 11/415 5528
		  PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
		 2323 2320 root S 2750m309.4 2 38.9 /usr/sbin/asterisk -f -vvvg -c
		   71 2 root SW 0 0.0 3 0.5 [mmcqd/0]
			Call Rate of initiation and termination are 10 calls/sec. The call duration is 90 seconds. The calls are automatically started again after 3 seconds delay.

	Memory Usage	[root@UC300 log]#free -m total used free shared buffers Mem: 887 752 135 0 45 -/+ buffers: 706 180 Swap: 2047 76 1971	
g729	CPU Usage	Mem: 818208K used, 90888K free, 53836K shrd, 20504K buff, 102748K cached CPU: 40.9% usr 9.0% sys 0.0% nic 47.4% idle 0.6% io 0.0% irq 1.9% sirq Load average: 4.77 4.41 4.42 5/338 27145 PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND 2332 2329 root S 2692m302.9 3 49.6 /usr/sbin/asterisk -f -vvvg -c 27114 24574 root R 7764 0.8 3 0.5 top	
	Memory Usage	[root@UC300 asterisk]#free -m total used free shared buffers Mem: 887 796 90 0 21 -/+ buffers: 775 111 Swap: 2047 140 1907	