

IxLoad 5.10 Data Performance -- IPv4/IPv6 Ranges

All numbers listed in the table below are measured using a pair of Ixia test ports acting as client and server. In some cases, per-port server performance is the limiting factor. Higher performance may be achieved when using IxLoad clients in configurations using External Servers.  
All values are calibrated with IxLoad 4.20.0.105 and IxOS 5.30.451.123

Protocol	IP Version	Test Objectives	LM1000STXS4-256	ALM1000T8	ELM1000ST2	CPM1000T8	LSM10GE-01	LSM1000XMV16-01	ASM1000XMV12X-N/A	ASM1000XMV12X-1GAM	ASM1000XMV12X-10GAM	NGY-NP4	NGY-NP8	Accleron-XP-N/A	Accleron-XP-1G	Accleron-XP-10G	Accleron-NP-N/A	Accleron-NP-1G	Accleron-NP-10G	Comment
HTTP1.1	IPv4	Transaction Rate	11800	19500	24500	20272	27225	23050	22000	273735	274074	135000	110000	N/A	N/A	N/A	152000	500000	1800000	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 20 concurrent connections per user, 1 Server IP, 1 byte GET
HTTP1.1	IPv4	Simulated Users	35875	194950	194950	398859	92576	195358	234296	2243092	2344296	800000	800000	N/A	N/A	N/A	N/A	N/A	N/A	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1 byte GET, TCP: Send/Recv buffer 1024
HTTP1.1	IPv4	Concurrent Connections	35423	194910	189950	391799	86980	194950	194950	2339400	2339400	800000	800000	416700	5000000	5000000	833000	10000000	10000000	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 21 concurrent connections per user, 1 Server IP, 1 byte GET, TCP: Send/Recv buffer 1024
HTTP1.1	IPv4	Throughput (MBps)	34	71	62	117	52	113	117	117	1175	640	600	N/A	N/A	N/A	117	117	1130	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1048576 byte GET,TCP: Send/Recv buffer 1048576 <b>CPM1000T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096/8192 respectively, HTTP 1.1 1024k byte GET, 16 concurrent connections per user, Max possible TCP transactions per TCP connection.
HTTP1.1	IPv6	Transaction Rate	11800	18000	24450	20250	26354	22001	22272	273538	271221	27860	N/A	N/A	N/A	N/A	27894	309915	335150	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 20 concurrent connections per user, 1 Server IP, 1 byte GET
HTTP1.1	IPv6	Simulated Users	35500	194950	194950	398859	92576	195358	194950	2345858	2345858	92576	N/A	N/A	N/A	N/A	389900	4691716	4691716	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1 byte GET, TCP: Send/Recv buffer 1024
HTTP1.1	IPv6	Concurrent Connections	35000	189950	189950	398859	86780	194950	194950	2339400	2339400	91788	N/A	N/A	N/A	N/A	389900	5661348	5661348	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 21 concurrent connections per user, 1 Server IP, 1 byte GET, TCP: Send/Recv buffer 1024
HTTP1.1	IPv6	Throughput (MBps)	34	53	58	66	48	75	68	116	792	70	N/A	N/A	N/A	N/A	78	117	824	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1048576 byte GET,TCP: Send/Recv buffer 1048576
HTTP1.0	IPv4	Connection Rate	2200	4500	6876	12100	7000	14200	14200	170400	170400	63000	50000	33333	399996	399996	62000	245000	742000	HTTP 1.0 without keepalive, 1 byte GET, 20 concurrent connections per user. <b>CPM1000T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096, HTTP 1.0 without keepalive, 1 byte GET, 16 concurrent connections per user, Disable Server Side TCP/IP Timestamp. Client Traffic for HTTP disable the Keep Alive, Browser Emulation should be empty
HTTP1.0	IPv4	Transaction Rate	2200	4500	7000	4600	7926	6499	6500	82112	79195	61000	47000	N/A	N/A	N/A	60000	245000	740000	HTTP 1.0 without keepalive, 1 byte GET, 20 concurrent connections per user. <b>CPM1000T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096, HTTP 1.0 without keepalive, 1 byte GET, 16 concurrent connections per user, Disable Server Side TCP/IP Timestamp. Client Traffic for HTTP disable the Keep Alive, Browser Emulation should be empty
HTTP1.0	IPv4	Simulated Users	35875	194950	194950	398839	92576	195358	195358	2280147	2345858	800000	800000	N/A	N/A	N/A	N/A	N/A	N/A	HTTP 1.0 without keepalive, 1 byte GET, 1 concurrent connections per user, TCP: Send/Recv buffer 1024
HTTP1.0	IPv4	Concurrent Connections	35423	194910	189950	398839	86980	194950	194950	2339400	2339400	800000	800000	416700	5000000	5000000	833000	10000000	10000000	HTTP 1.0 without keepalive, 1 byte GET, 21 concurrent connections per user, TCP: Send/Recv buffer 1024
HTTP1.0	IPv4	Throughput (MBps)	35	62	62	116	76	113	117	117	1130	640	600	N/A	N/A	N/A	117	117	1130	HTTP 1.0 without keepalive, 1048576 byte GET, 21 concurrent connections per user, TCP: Send/Recv buffer 4096/32768 <b>CPM100T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096/32768, HTTP 1.0 without keepalive, 1048576 byte GET, 21 concurrent connections per user, Disable Server Side TCP/IP Timestamp.
HTTP1.0	IPv6	Connection Rate	2000	4002	6375	4062	6925	5842	6104	73459	74881	7326	N/A	N/A	N/A	N/A	7700	95496	92645	HTTP 1.0 without keepalive, 1 byte GET, 20 concurrent connections per user. <b>CPM1000T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096, HTTP 1.0 without keepalive, 1 byte GET, 16 concurrent connections per user, Disable Server Side TCP/IP Timestamp. Client Traffic for HTTP disable the Keep Alive, Browser Emulation should be empty
HTTP1.0	IPv6	Transaction Rate	2000	4002	6428	4062	7226	5904	6118	72250	72394	7299	N/A	N/A	N/A	N/A	7600	93925	94112	HTTP 1.0 without keepalive, 1 byte GET, 20 concurrent connections per user. <b>CPM1000T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096, HTTP 1.0 without keepalive, 1 byte GET, 16 concurrent connections per user, Disable Server Side TCP/IP Timestamp. Client Traffic for HTTP disable the Keep Alive, Browser Emulation should be empty
HTTP1.0	IPv6	Simulated Users	35500	195306	194950	398859	92576	195358	195358	2345727	2345858	92576	N/A	N/A	N/A	N/A	390716	4691454	4691716	HTTP 1.0 without keepalive, 1 byte GET, 1 concurrent connections per user, TCP: Send/Recv buffer 1024
HTTP1.0	IPv6	Concurrent Connections	35000	185330	189950	398859	86780	194950	194950	2339160	2339400	91788	N/A	N/A	N/A	N/A	389900	4678320	4678800	HTTP 1.0 without keepalive, 1 byte GET, 21 concurrent connections per user, TCP: Send/Recv buffer 1024
HTTP1.0	IPv6	Throughput (MBps)	35	52	57	56	69	72	66	116	884	80	N/A	N/A	N/A	N/A	67	117	872	HTTP 1.0 without keepalive, 1048576 byte GET, 21 concurrent connections per user, TCP: Send/Recv buffer 4096/32768. <b>CPM100T8 only:</b> Set TCP Tx/Rx Buffer Size to 4096/32768, HTTP 1.0 without keepalive, 1048576 byte GET, 21 concurrent connections per user, Disable Server Side TCP/IP Timestamp.
HTTP1.0 SSL	IPv4	Connection Rate	376	777	1115	777	1371	1188	1265	14618	14289	5500	4625	6000	72000	72000	6000	72000	72000	HTTP 1.0 without keepalive, 1 byte GET(SSL), 20 concurrent connections per user, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv4	Connection Rate (No Session Reuse)	117	185	885	187	255	206	210	2521	2559	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HTTP 1.0 without keepalive, 1 byte GET(SSL), 20 concurrent connections per user, SSLv3.0, Sequential Session Reuse 0
HTTP1.0 SSL	IPv4	Transaction Rate	387	796	1160	824	1050	1180	1206	14519	14335	5500	4625	6000	72000	72000	6000	72000	72000	HTTP 1.0 without keepalive, 1 byte GET(SSL), 20 concurrent connections per user, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv4	Simulated Users	2386	11544	11000	23992	4887	11542	11544	138624	138624	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HTTP 1.0 without keepalive, 1 byte GET(SSL), 1 concurrent connections per user, TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv4	Concurrent Connections	1677	8130	8242	17244	3630	8445	8413	100859	100877	30000	30000	31250	375000	375000	31250	375000	375000	HTTP 1.0 without keepalive, 1 byte GET(SSL), 21 concurrent connections per user, TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv4	Concurrent Connections (No Session Reuse)	1677	8130	8242	17421	3930	8333	8413	100859	100877	N/A	N/A	31250	375000	375000	31250	375000	375000	HTTP 1.0 without keepalive, 1 byte GET(SSL), 21 concurrent connections per user, TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 0
HTTP1.0 SSL	IPv4	Throughput (MBps)	4500 KBps	10078 KBps	12157 KBps	9997 KBps	13586 KBps	11250 KBps	10240 KBps	116105 KBps	133976 KBps	20	17	27	125	324	27	125	324	HTTP 1.0 without keepalive, 1048576 byte GET(SSL), 1 concurrent connections per user, TCP: Send/Recv buffer 1048576, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv6	Connection Rate	359	760	1102	771	1298	1179	1193	14444	14361	N/A	N/A	N/A	N/A	N/A	1508	18202	17538	HTTP 1.0 without keepalive, 1 byte GET(SSL), 20 concurrent connections per user, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv6	Transaction Rate	346	723	1130	768	1274	1152	1206	14216	14083	N/A	N/A	N/A	N/A	N/A	1482	17100	16909	HTTP 1.0 without keepalive, 1 byte GET(SSL), 20 concurrent connections per user, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv6	Simulated Users	2386	11544	11542	6416	5392	11544	11544	138624	138624	N/A	N/A	N/A	N/A	N/A	23088	138624	138624	HTTP 1.0 without keepalive, 1 byte GET(SSL), 1 concurrent connections per user, TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv6	Concurrent Connections	1720	8417	8434	17519	3976	8412	8409	100668	100844	N/A	N/A	N/A	N/A	N/A	16818	201336	201688	HTTP 1.0 without keepalive, 1 byte GET(SSL), 21 concurrent connections per user, TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.0 SSL	IPv6	Throughput (KBps)	5000	9785	12377	10116	13091	11625	11641	116736	141372	N/A	N/A	N/A	N/A	N/A	13850	115000	163968	HTTP 1.0 without keepalive, 1048576 byte GET(SSL), 1 concurrent connections per user, TCP: Send/Recv buffer 1048576, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv4	Transaction Rate	2523	5351	9650	5380	9577	7763	7885	93792	93010	31250	25000	31250	375000	375000	31250	375000	375000	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 20 concurrent connections per user, 1 Server IP, 1 byte GET(SSL), SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv4	Simulated Users	2386	11544	11542	23992	5392	11544	11544	138624	138624	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1 byte GET(SSL), TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv4	Concurrent Connections	1720	8242	8434	14686	3940	8418	8411	100900	100826	30000	30000	31250	375000	375000	31250	375000	375000	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 21 concurrent connections per user, 1 Server IP, 4k byte GET(SSL), TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv4	Throughput (MBps)	6200 KBps	10500 KBps	18432 KBps	10750 KBps	14907 KBps	12062 KBps	12352 KBps	117375 KBps	138624 KBps	20	17	27	125	324	27	125	324	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1048576 byte GET(SSL),TCP: Send/Recv buffer 1048576, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv6	Transaction Rate	2496	4985	9650	5500	7000	7637	7696	92393	92016	NA	N/A	N/A	N/A	N/A	9600	114500	117146	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 20 concurrent connections per user, 1 Server IP, 1 byte GET(SSL), SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv6	Simulated Users	2386	11544	11542	23992	5392	11544	11544	138264	138264	NA	N/A	N/A	N/A	N/A	23088	138624	138624	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1 byte GET(SSL), TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv6	Concurrent Connections	1720	8343	8445	16235	3878	8420	8413	100560	100826	NA	N/A	N/A	N/A	N/A	16826	201120	201652	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 21 concurrent connections per user, 1 Server IP, 1 byte GET(SSL), TCP: Send/Recv buffer 1024, SSLv3.0, Sequential Session Reuse 2147483647
HTTP1.1- SSL	IPv6	Throughput (KBps)	6193	10468	18432	10375	14097	12062	12244	114728	140933	NA	N/A	N/A	N/A	N/A	14500	115000	174000	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1048576 byte GET(SSL),TCP: Send/Recv buffer 1048576, SSLv3.0, Sequential Session Reuse 2147483647
FTP	IPv4	Connection Rate	1375	2849	4500	2749	4757	4176	4348	N/A	N/A	5104	N/A	4850	N/A	N/A	4850	N/A	N/A	Only Login, Quit Sequence
FTP	IPv4	Transaction Rate	3850	8300	13600	8200	14769	12588	12812	N/A	N/A	15294	N/A	15521	N/A	N/A	15521	N/A	N/A	Only Login, Quit Sequence
FTP	IPv4	Connection Rate	1115	2200	3800	2112	4072	3521	3715	42327	42327	4322	4087	4293	52000	50000	4293	52000	50000	1 byte Get
FTP	IPv4	Transaction Rate	3335	6824	11500	6600	12260	10689	11403	134543	12859	10584	12824	158776	160579	12824	158776	160579	160579	1 byte Get
FTP	IPv4	Simulated Users	22215	103072	103072	220325	49777	106187	106187	578371	578371	64000	64000	212374	1156742	1156742	212374	1156742	1156742	SU: 10min 20 Sec, TCP: Send/Recv buffer 1024; FTP: Login, Quit
FTP	IPv4	Concurrent Sessions	17750	63999	64000	64003	49777	65290	578371	65400	578371	64000	64000	64510	764000	764000	64510	764000	774300	SU: 10min 20 Sec, TCP: Send/Recv buffer 1024; FTP: Login, Quit
FTP	IPv4	Throughput (MBps)	57	115	46	112	187	115	117	1174	1174	207	170	119	116	1200	119	116	1200	SU: 10min 20 Sec, TCP: Send/Recv buffer 1048576, FTP: GET #/1048576
FTP	IPv6	Connection Rate	1190	2530	4130	2430	4563	3900	3946	31335	37587	4829	3946	4926	N/A	N/A	4926	NA	NA	login and quit
FTP	IPv6	Transaction Rate	3691	7400	12284	5905	13331	11600	11746	124269	125467	14488	N/A	13220	N/A	N/A	13220	NA	NA	login and quit
FTP	IPv6	Connection Rate	1000	1870	3546	1930	3766	3330	3382	N/A	N/A	4600	N/A	4926	N/A	N/A	4926	NA	NA	1 byte Get
FTP	IPv6	Transaction Rate	2900	6811	11204	6044	11369	9848	10138	N/A	N/A	12250	N/A	148005	148005	12250	148000	148005	148000	1 byte Get
FTP	IPv6	Simulated Users	22215	103072	103072	220325	49777	106187	106187	578371	578371	49777	N/A	208371	1156742	1156742	208371	1156742	1156	



IxLoad 5.10 Data Performance -- IPv4/IPv6 Ranges

Protocol	IP Version	Test Objectives	LM1000STXS4-256	ALM1000T8	ELM1000ST2	CPM1000T8	LSM10GE-01	LSM1000XMV16-01	ASM1000XMV12X-N/A	ASM1000XMV12X-1GAM	ASM1000XMV12X-10GAM	NGY-NP4	NGY-NP8	Accleron-XP-N/A	Accleron-XP-1G	Accleron-XP-10G	Accleron-NP-N/A	Accleron-NP-1G	Accleron-NP-10G	Comment
POP3	IPv4	Throughput (Mbps)	10	12	14	13	14	14	12	N/A	N/A	17	N/A	18	N/A	N/A	18	N/A	N/A	Get Command, user/password authentication, Mail Count is 10000, Mail size is 1024000 bytes, TCP: Send/Recv buffer 1048576;
POP3	IPv6	Connection Rate	1263	2550	4405	2531	4795	4131	2500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5000	N/A	N/A	Open, Quit Sequence with appop
POP3	IPv6	Transaction Rate	2436	5050	8749	5067	9315	8216	8529	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10167	N/A	N/A	Open, Quit Sequence with appop
POP3	IPv6	Connection Rate	834	1752	2991	1730	3242	2823	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3396	N/A	N/A	Get Command, appop, Mail Count is 1, Mail size is 1, no attachments, only the "from" and "to" headers.
POP3	IPv6	Transaction Rate	4167	7550	11758	7764	12830	10790	10654	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13037	N/A	N/A	Get Command, appop, Mail Count is 10, Mail size is 1, no attachments, only the "from" and "to" headers.
POP3	IPv6	Simulated Users	15690	73848	74990	155616	35157	75000	70500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150000	N/A	N/A	Get Command, user/password authentication, Mail Count is 1, Mail size is 100byte, no attachments, TCP: Send/Recv buffer 1024;
POP3	IPv6	Concurrent Connections	15491	75000	74990	15328	15151	75000	75000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	75006	N/A	N/A	Get Command, user/password authentication, Mail Count is 1, Mail size is 100byte, no attachments, TCP: Send/Recv buffer 1024;
POP3	IPv6	Throughput (Mbps)	9	13	14	13	15	14	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18	N/A	N/A	Get Command, user/password authentication, Mail Count is 10000, Mail size is 1024000 bytes, TCP: Send/Recv buffer 1048576;
DNS	IPv4	TCP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DNS	IPv4	Simulated Users	16189	77695	77685	141279	36377	77691	77695		932340	191000	191000	155390	N/A	1864680	155390	N/A	1864680	1 Type A Query: Query Timeout = Number of users/rate of transactions. rate of transactions: ALM = 900, STXS4 = 500, Ramp Up = 100.
DNS	IPv4	Transaction Rate	448	1101	2867	1194	3097	2800	2749	N/A	32988	3149	2773	3463	N/A	40834	3463	N/A	40834	1 Type A Query
DNS	IPv4	Throughput (KBps)	59	125	310	124	N/A	N/A	N/A	N/A	N/A	413	341	N/A	N/A	N/A	N/A	N/A	N/A	1 Type A Query
DNS	IPv4	QS	500	1200	2700	1200	N/A	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DNS	IPv4	UDP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DNS	IPv4	Simulated Users	19297	92611	92510	192262	43360	92611	92817		1106244	191000	191000	185634	N/A	2212488	185634	N/A	2212488	1 Type A Query
DNS	IPv4	Transaction Rate	2500	4500	11285	7603	13213	10916	10951	N/A	130000	13000	11160	14157	N/A	171819	14157	N/A	171819	1 Type A Query
DNS	IPv4	Throughput (KBps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DNS	IPv4	QS	3599	7800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18160	14998	N/A	N/A	N/A	N/A	N/A	N/A	
DNS	IPv4	QS	4000	10000	N/A	10113	N/A	10515	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TELNET	IPv4	Transaction Rate	10118	16000	24102	17033	25955	22570	22089	N/A	N/A	30850	N/A	26500	N/A	N/A	26500	N/A	N/A	Command list having 360 SEND commands
TELNET	IPv4	Simulated Users	14076	66000	67545	140243	31628	67554	139000	N/A	N/A	N/A	N/A	110032	N/A	N/A	110032	N/A	N/A	Command list having one complete set of commands
TELNET	IPv4	Concurrent Connections	14076	61600	67545	124341	31628	67554	67554	N/A	N/A	135108	N/A	135108	N/A	N/A	135108	N/A	N/A	Command list having one complete set of commands
TELNET	IPv4	Connection Rate	1111	2118	3430	2162	3467	3500	5331	N/A	N/A	2875	N/A	3500	N/A	N/A	3500	N/A	N/A	Just LOGIN, PASSWORD and EXIT
RTSP	IPv4	Connection Rate	540	1050	1833	1025	2017	1754	1720	N/A	9281	2073	N/A	2162	N/A	11139	2162	N/A	11139	Describe, Setup, Teardown sequence
RTSP	IPv4	Transaction Rate	1623	3100	5677	3145	6050	35965	6139	N/A	35965	5219	N/A	6413	43412	6413	43412	N/A	43412	
RTSP	IPv4	Simulated Users	2112	10098	10097	10098	4733	10098	10098	60610	60610	20000	N/A	20196	121220	242520	20196	121220	242520	Describe, Setup, Play For voice(1016) with 30 second duration, Teardown sequence, TCP: Send/Recv buffer 1024;
RTSP	IPv4	Concurrent Sessions	1959	9800	10097	10000	4347	10232	10394	46889	66411	20000	N/A	15841	103155	176785	15841	103155	176785	Describe, Setup, Play For voice(1016) with 30 second duration, Teardown sequence, TCP: Send/Recv buffer 1024;
RTSP	IPv4	Throughput - RTP/UDP (Mbps)	N/A	56	N/A	N/A	N/A	61	65	93	673	N/A	N/A	66	N/A	N/A	66	N/A	N/A	Custom stream with three Audio MP3 9000 Hz media streams @ 64000 kbps data rate.
RTSP	IPv4	Throughput - RTP/TCP (Mbps)	N/A	28	N/A	N/A	N/A	30	30	117	343	N/A	N/A	33	N/A	N/A	33	N/A	N/A	Custom stream with three Audio MP3 9000 Hz media streams @ 64000 kbps data rate.
QuickHTTP1.0	IPv4	Connection Rate	6308	9018	12040	9248	12805	9248	12040	N/A	12040	N/A	N/A	14000	N/A	N/A	14000	N/A	N/A	HTTP 1.0 without keepalive, 1 byte GET, 20 concurrent connections per user.
QuickHTTP1.0	IPv4	Transaction Rate	6000	9000	9186	9186	12676	12369	12450	N/A	N/A	N/A	N/A	14246	N/A	N/A	14246	N/A	N/A	
QuickHTTP1.0	IPv4	Simulated Users	269539	1000000	1000000	1000000	668153	1000000	1000000	N/A	N/A	N/A	N/A	1000000	N/A	N/A	1000000	N/A	N/A	HTTP 1.0 without keepalive, 1 byte GET, 1 concurrent connections per user, TCP: Send/Recv buffer 1024
QuickHTTP1.0	IPv4	Concurrent Connections	269539	1000000	1000000	1000000	668153	1000000	1000000	N/A	N/A	N/A	N/A	1000000	N/A	N/A	1000000	N/A	N/A	HTTP 1.0 without keepalive, /#655360 byte GET, 21 concurrent connections per user
QuickHTTP1.0	IPv4	Throughput (Mbps)	21	34	37	35	37	37	39	N/A	N/A	N/A	N/A	43	N/A	N/A	43	N/A	N/A	HTTP 1.0 without keepalive, 1048576 byte GET, 20 concurrent connections per user
QuickHTTP1.1	IPv4	Transaction Rate	12800	18836	22000	18000	23040	23909	23871	N/A	N/A	N/A	N/A	26323	N/A	N/A	26323	N/A	N/A	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 20 concurrent connections per user, 1 Server IP, 1 byte GET
QuickHTTP1.1	IPv4	Simulated Users	488678	1000000	1000000	1000000	935000	1000000	1000000	N/A	N/A	N/A	N/A	1000000	N/A	N/A	1000000	N/A	N/A	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 1 concurrent connections per user, 1 Server IP, 1 byte GET, TCP: Send/Recv buffer 1024
QuickHTTP1.1	IPv4	Concurrent Connections	368662	1000000	1000000	1000000	800000	1000000	1000000	N/A	N/A	N/A	N/A	1000000	N/A	N/A	1000000	N/A	N/A	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 21 concurrent connections per user, 1 Server IP, 1 byte GET, TCP: Send/Recv buffer 1024
QuickHTTP1.1	IPv4	Throughput (Mbps)	21	34	36	35	37	37	40	N/A	N/A	N/A	N/A	43	N/A	N/A	43	N/A	N/A	HTTP 1.1 or HTP 1.0 with keepalive, maximum possible transaction over a connection, 20 concurrent connections per user, 1 Server IP, 1048576 byte GET
QuickTCP	IPv4	Connection Rate	8000	13000	18289	14905	19000	19047	19408	N/A	N/A	N/A	N/A	21953	N/A	N/A	21953	N/A	N/A	no options
QuickTCP	IPv4	Simulated Users	358643	1000000	1000000	1000000	885000	1000000	1000000	N/A	N/A	N/A	N/A	1000000	N/A	N/A	1000000	N/A	N/A	no options
QuickTCP	IPv4	Concurrent Connections	358643	1000000	1000000	1000000	885000	1000000	1000000	N/A	N/A	N/A	N/A	1000000	N/A	N/A	1000000	N/A	N/A	no options
IMAP	IPv4	Connection Rate	836	1500	2413	1585	1742	2216	2227	N/A	27000	N/A	N/A	2764	N/A	N/A	32750	N/A	N/A	FETCH 1 byte 1 mail
IMAP	IPv4	Connection Rate	1470	2945	4600	2805	3473	4338	4376	N/A	N/A	5200	N/A	5242	N/A	N/A	5242	N/A	N/A	OPEN, LOGIN, LOGOUT.
IMAP	IPv4	Transaction Rate	3300	6034	9745	6167	6534	8897	8924	N/A	105000	N/A	N/A	11000	N/A	134896	11000	N/A	134896	FETCH 1 byte 1 mail.
IMAP	IPv4	Transaction Rate	2913	5800	9303	5607	5880	8696	8500	N/A	10925	N/A	N/A	10720	N/A	N/A	10720	N/A	N/A	OPEN, LOGIN, LOGOUT.
IMAP	IPv4	Simulated Users	19733	89540	94693	196612	44341	94706	94706	N/A	N/A	196000	N/A	189412	N/A	N/A	189412	N/A	N/A	(Get Mails) 100 byte mail size and mail count 1.(Kali: ALM -The mail's comment is "100 byte mail size and mail count 1" but the mail size is 1 byte STXS4-The mail's comment is "100 byte mail size and mail count 1 but the mail size is 1024).
IMAP	IPv4	Concurrent Sessions	19733	94706	94693	110000	44341	94706	94706	N/A	N/A	196000	N/A	171000	N/A	N/A	171000	N/A	N/A	(Get Mails) 1 byte mail size and mail count 1.
IMAP	IPv4	Throughput (Mbps)	8	11	12	11	14	11	12	N/A	N/A	15	N/A	15	N/A	N/A	15	N/A	N/A	(Get Mails) 1024000 byte mail size and mail count 10000.
IMAP	IPv6	Connection Rate	1250	2637	4361	2684	4831	4060	4259	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5122	N/A	N/A	OPEN, LOGIN, LOGOUT.
IMAP	IPv6	Transaction Rate	3000	5940	9424	6098	10510	8652	9045	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10690	N/A	N/A	FETCH 1 byte 1 mail.
IMAP	IPv6	Simulated Users	19733	89540	94693	196612	44341	94706	94706	N/A	1136472	N/A	N/A	N/A	N/A	N/A	189412	N/A	N/A	(Get Mails) 100 byte mail size and mail count 1.(Kali:The mail's comment is "100 byte mail size and mail count 1" but the mail size is 1 byte)
IMAP	IPv6	Concurrent Sessions	19733	94706	94693	183069	44341	94706	94706	N/A	N/A	N/A	N/A	N/A	N/A	N/A	189412	N/A	N/A	(Get Mails) 1 byte mail size and mail count 1.
IMAP	IPv6	Throughput (Mbps)	11	12	11	12	12	11	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	(Get Mails) 1024000 byte mail size and mail count 10000.
DDOS	IPv4	Simulated Users	10	10	10	10	10	10	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DDOS	IPv4	Peak Burst Rate	52250	66900	87500	N/A	55651	92000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Burst Size=10000, Burst Rate=0 (Max) with SynFloodAttack
DDOS	IPv4	Throughput (KBps)	162	294	450	N/A	500	414	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Burst Size=10, Burst Rate=0 (Max) with SynFloodAttack
Video		VoD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Video	IPv4	Simulated Users	500	820	N/A	2000	750	2000	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Stream Count=# users:Stream Rate=1 Mbps:synthetic payload ( For Whistler 1G and 10G use play media)
Video	IPv4	Max Client Active Streams	500	820	N/A	820	750	820	940	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per stream bit rate @ 1Mbps/# users = # server streams
Video		Multicast	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Video	IPv4	Simulated Users - 1 PIP	1323	2000	N/A	2000	2000	2000	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Channel Viewing Sequence = Concurrent; Concurrent Channels=1; Watch Duration = 120 sec., IGMP Options Unsolicited and Immediate Response Modes disabled.
Video	IPv4	Simulated Users - 2 PIP	700	1000	N/A	1000	1000	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Channel Viewing Sequence = Concurrent; Concurrent Channels=2; Watch Duration = 120 sec., IGMP Options Unsolicited and Immediate Response Modes disabled.
Video	IPv4	Simulated Users - 3 PIP	466	666	N/A	666	666	666	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Channel Viewing Sequence = Concurrent; Concurrent Channels=3; Watch Duration = 120 sec., IGMP Options Unsolicited and Immediate Response Modes disabled.
Video	IPv4	Simulated Users - 4 PIP	350	500	N/A	500	500	500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Channel Viewing Sequence = Concurrent; Concurrent Channels=4; Watch Duration = 120 sec., IGMP Options Unsolicited and Immediate Response Modes disabled.
SIP		UDP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SIP	IPv4	Simulated Users	3900	15000	N/A	15000	8884	13500	13500	16000	16000	15000	15000	N/A	N/A	N/A	N/A	N/A	N/A	
SIP	IPv4	Simulated Users with voice session	450	900	N/A	900	900	810	800	10000	10000	900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SIP	IPv4	Calls Initiated Per Second	800	1100	N/A	1301	1440													

IxLoad 5.10 Data Performance -- IPv4/IPv6 Ranges																				
Protocol	IP Version	Test Objectives	LM1000STXS4-256	ALM1000T8	ELM1000ST2	CPM1000T8	LSM10GE-01	LSM1000XMV16-01	ASM1000XMV12X-N/A	ASM1000XMV12X-1GAM	ASM1000XMV12X-10GAM	NGY-NP4	NGY-NP8	Accleron-XP-N/A	Accleron-XP-1G	Accleron-XP-10G	Accleron-NP-N/A	Accleron-NP-1G	Accleron-NP-10G	Comment
Peer-2-Peer	IPv6	Connections Rate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Peer-2-Peer	IPv6	Concurrent Connections	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Peer-2-Peer	IPv6	Throughput(MBps)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Peer-2-Peer	IPv6	Throughput(KBps)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Peer-2-Peer	IPv6	Transaction Rate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		UDP																		
Video	IPv4	Transaction Rate (UDP)	N/A	1500	N/A	1642	N/A	2220	2263	32922	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:TPS-UDP_IPv46.nf
Video	IPv4	Connection Rate(UDP)	N/A	817	N/A	817	N/A	1203	1205	12233	N/A	1251	N/A	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:CPS-UDP_IPv46.nf
Video	IPv6	Transaction Rate(UDP)	NA	2129	NA	1973	NA	1875	2995	23749	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:TPS-UDP_IPv66.nf
Video	IPv6	Connection Rate(UDP)	NA	670	NA	734	NA	1010	1041	994	11811	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:CPS-UDP_IPv66.nf
		RTP																		
Video	IPv4	Transaction Rate(RTP)	N/A	1564	N/A	1663	N/A	2000	2100	2032	34275	N/A	2650	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:TPS-RTP_IPv46.nf
Video	IPv4	Connection Rate(RTP)	N/A	771	N/A	780	N/A	1173	1164	1162	11613	N/A	1225	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:CPS-RTP_IPv46.nf
Video	IPv6	Transaction Rate(RTP)	NA	2057	NA	2094	NA	2544	3259	15999	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:TPS-RTP_IPv66.nf
Video	IPv6	Connection Rate(RTP)	NA	641	NA	696	NA	963	949	937	11485	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	VOD commands: Wistler 10G aggregated - PlayMedia; all other cards - PlayStatic+stop. RXF:CPS-RTP_IPv66.nf
App Replay	IPv4	Initiator Peer Count	14469	70785	70775	147331	32953	70785	70785	849991	849991	833000	833000	N/A	N/A	N/A	833000	10000000	10000000	AppReplay Initiator and Responderwith capture file httpwith1user.cap
App Replay	IPv4	Connections Rate	4500	8500	10200	8500	11000	12000	92000	59000	58000	N/A	N/A	N/A	N/A	N/A	62000	280000	744000	AppReplay Initiator and Responderwith capture file httpwith1user.cap
App Replay	IPv4	Concurrent Connections	14469	70785	70775	147331	32953	70785	70785	849991	849991	833000	833000	N/A	N/A	N/A	833000	10000000	10000000	AppReplay Initiator and Responderwith capture file httpwith1user.cap
App Replay	IPv4	Throughput(MBps)(Verify Content)	24	32	32	32	43	40	40	320	90	NA	NA	N/A	N/A	N/A	85	115	1000	AppReplay Initiator and Responderwith capture file 1MBhttpcap.cap
App Replay	IPv4	Throughput(MBps)(Verify Length)	75	100	70	100	163	100	100	115	1000	625	625	N/A	N/A	N/A	110	115	1120	AppReplay Initiator and Responder also with TCP buffer size of 12000 in both Initiator and Responderwith capture file 1MBhttpcap.cap
App Replay	IPv4	Throughput(KBps)(Verify Content)	24000	32000	32000	32000	43000	40000	40000	320000	320000	90000	NA	N/A	N/A	N/A	85000	115000	1000000	AppReplay Initiator and Responderwith capture file 1MBhttpcap.cap
App Replay	IPv4	Throughput(KBps)(Verify Length)	75000	100000	70000	100000	163000	10000	100000	115000	1000000	625000	NA	N/A	N/A	N/A	110000	115000	1120000	AppReplay Initiator and Responder also with TCP buffer size of 12000 in both Initiator and Responderwith capture file 1MBhttpcap.cap
App Replay	IPv4	Transaction Rate	4300	7000	10500	9000	11000	40000	40000	92000	92000	200000	180000	N/A	N/A	N/A	200000	420000	2400000	AppReplay Initiator and Responderwith capture file httpwith1user.cap
App Replay	IPv6	Initiator Peer Count	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	
App Replay	IPv6	Connections Rate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	
App Replay	IPv6	Concurrent Connections	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	
App Replay	IPv6	Throughput(MBps)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	
App Replay	IPv6	Throughput(KBps)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	
App Replay	IPv6	Transaction Rate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	
CIFS	IPv4	Connection Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2400	28400	28400	2400	28400	28400	Only ScanAll Command
CIFS	IPv4	Transaction Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19000	220000	220000	19000	220000	220000	Only ScanAll Command
CIFS	IPv4	Simulated Users	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90000	1000000	1000000	90000	1000000	1000000	Only ScanAll Command
CIFS	IPv4	Concurrent Connections	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90000	1000000	1000000	90000	1000000	1000000	Only ScanAll Command
CIFS	IPv4	Throughput (MBps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	75	150	150	75	150	150	Only ScanAll Command