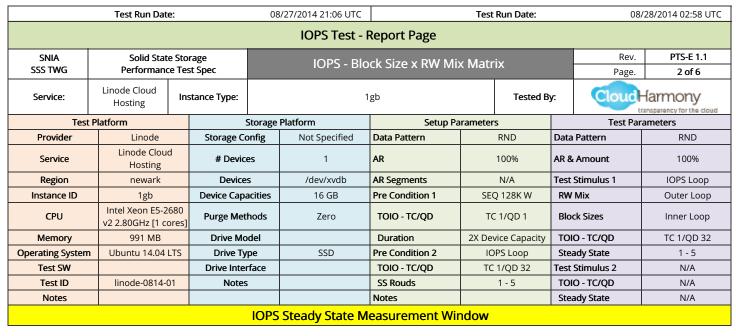
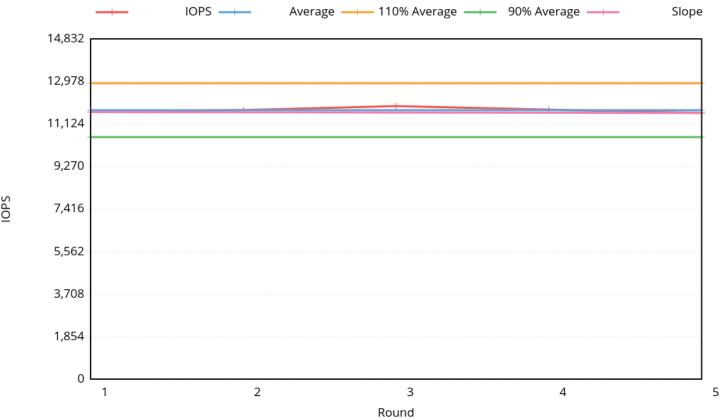


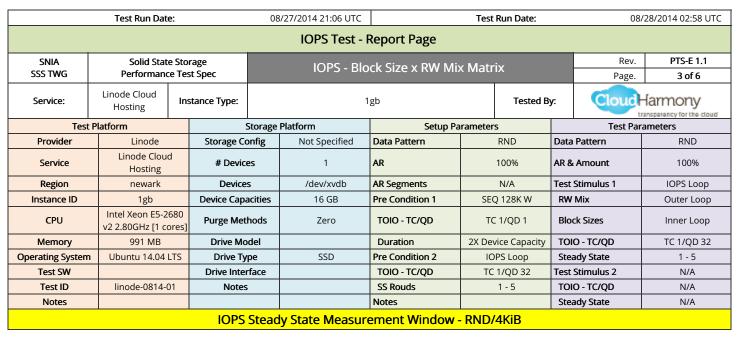
Plot A.1 - IOPS Steady State Convergence Plot - All Block Sizes

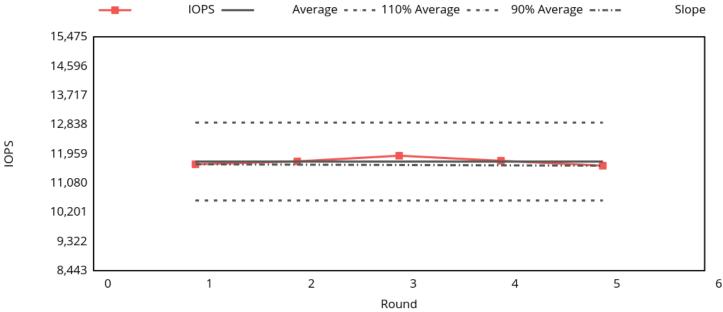
Round





Plot A.2 - IOPS Steady State Measurement Window





Steady State Determination Data

Steady State Determination Data			
Average IOPS:			11726
Allowed Maximum Data Excursion:	2345.36	Measured Maximum Data Excursion:	300
Allowed Maximum Slope Excursion:	1172.68	Measured Maximum Slope Excursion:	25.6
Least Squares Linear Fit Formula:			-6.4 * R + 11746

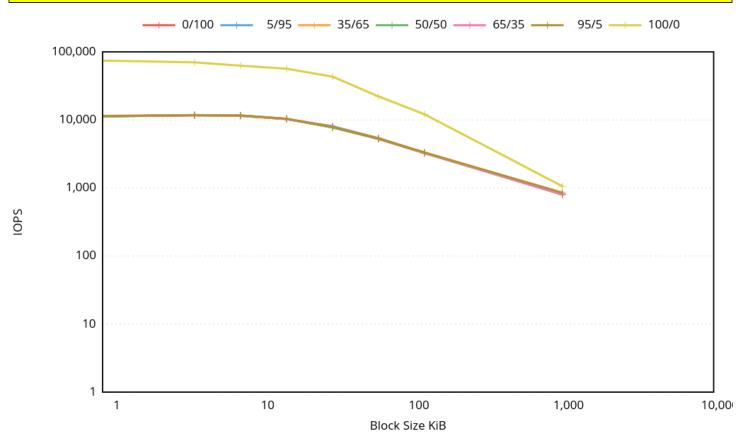
Plot A.3 - IOPS Steady State Measurement Window - RND/4KiB

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
					IOPS Test - I	Report Page					
SNIA SSS TWG	Solid Stat		•		IOPS - Block Size x RW Mix Matrix						PTS-E 1.1 4 of 6
Service:	Linode Cloud Hosting		stance Type:		1	gb Tested By:			y:	Cloud Harmony	
Test	Platform			Storage Platform Setup Parameters							ameters
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	Data	Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100%	AR & Amount		100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test Stimulus 1		IOPS Loop
Instance ID	1gb		Device Capa	cities	16 GB	Pre Condition 1	SE	SEQ 128K W		Mix	Outer Loop
СРИ	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	Zero	TOIO - TC/QD	ТС	1/QD 1	Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X De	vice Capacity	TOI	O - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	IC	PS Loop	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	N/A
Test ID	linode-0814-0	01	Notes			SS Rouds		1 - 5	TOI	O - TC/QD	N/A
Notes						Notes			Ste	ady State	N/A
IOPS - All RW Mix & BS - Tabular Data											

Diade Cina (KiD)	Read / Write Mix %											
Block Size (KiB)	0/100	5/95	35/65	50/50	65/35	95/5	100/0					
512b	11093	11124.8	11030.8	11063.8	11357.6	11233.6	76888.2					
4k	11726.8	11715.2	11802	11790.4	11781.8	11717	70105.8					
8k	11482	11536.8	11543.8	11667.8	11583.8	11623.2	62755.4					
16k	10306.2	10319.4	10343.8	10364.6	10301.4	10431.2	56564.2					
32k	7768.2	8070.2	7791.8	7775.4	7964.4	7910.2	43290					
64k	5247.4	5387	5352	5314.2	5394.6	5332.6	22173.6					
128k	3243.2	3290	3267.6	3292.4	3309.2	3331.6	12111.8					
1m	812.8	798.6	809.6	807.2	798.6	854	1059.8					

Plot A.4 - IOPS - All RW Mix & BS - Tabular Data

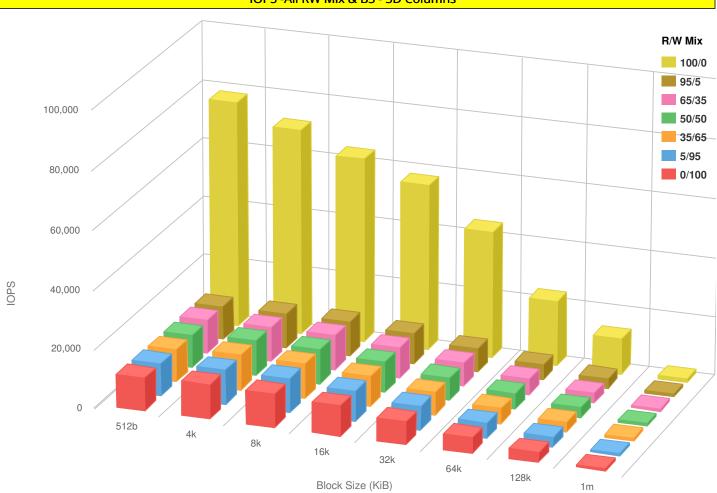
	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	/28/2014 02:58 UTC
					IOPS Test - I	Report Page				_	
SNIA	Solid Stat		U	IOPS - Block Size x RW Mix Matrix						Rev.	PTS-E 1.1
SSS TWG	Performano	e Tes	st Spec	1013 BIOCK SIZE A INVIVINIA WILLIA					Page.	5 of 6	
Service:	Linode Cloud Hosting	Ins	stance Type:	1gb Tested By				y:		Harmony	
Test P	latform		Storage Platform Setup Parameters				Test Par	ameters			
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	Data Pattern		RND
Service	Linode Cloud Hosting	d	# Device	es	1	AR		100% AR &		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test Stimulus 1		IOPS Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEQ 128K W		RW	Mix	Outer Loop
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	Zero	TOIO - TC/QD	TC 1/QD 1		TC 1/QD 1 Blo		Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TOI	IO - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	IO	PS Loop	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	N/A
Test ID	linode-0814-0	01	Notes SS Rouds 1 - 5 T					TOI	IO - TC/QD	N/A	
Notes						Notes			Ste	ady State	N/A
	IOPS - All RW Mix & BS - 2D Plot										



Plot A.5 - IOPS - All RW Mix & BS - 2D Plot

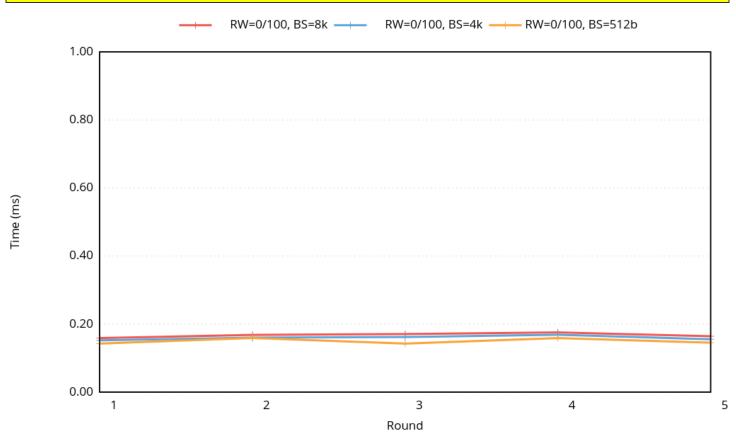
8/28/14 5

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
					IOPS Test - F	Report Page					
SNIA	Solid Stat		•	IOPS - Block Size x RW Mix Matrix						Rev.	PTS-E 1.1
SSS TWG	Performan	e Tes	st Spec	TOT 3 * BIOCK SIZE X INV IVIIX IVIALITA					Page.	6 of 6	
Service:	Linode Cloud Hosting	Ins	stance Type:	1gb			Tested By:			Harmony	
Test I	Platform			Storage Platform Setup Parameters						Test Par	ameters
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	Data	Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100%		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test Stimulus 1		IOPS Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SE	SEQ 128K W		Mix	Outer Loop
СРИ	Intel Xeon E5-2 v2 2.80GHz [1 c		Purge Met	hods	Zero	TOIO - TC/QD	TC 1/QD 1		Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X De	vice Capacity	TOI	IO - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	IC	PS Loop	Ste	ady State	1 - 5
Test SW			Drive Inte	Drive Interface		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	N/A
Test ID	linode-0814-	01	Notes	Notes SS Rouds 1 - 5 1					TOI	IO - TC/QD	N/A
Notes						Notes			Ste	ady State	N/A
	IOPS -All RW Mix & BS - 3D Columns										



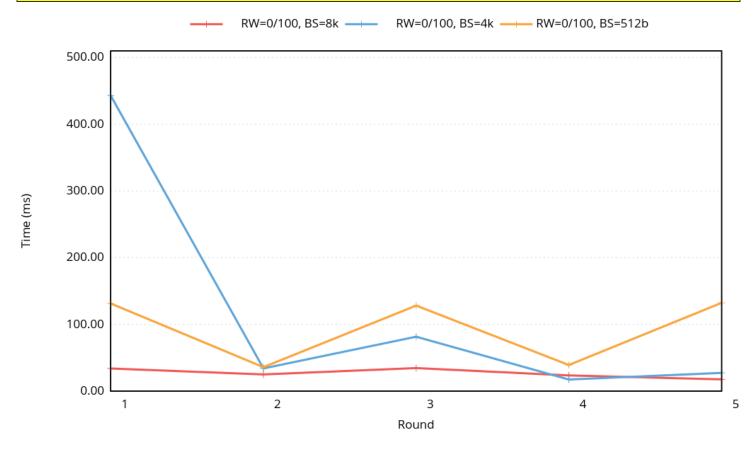
Plot A.6 - IOPS -All RW Mix & BS - 3D Columns

	Test Run Date	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
					LATENCY Test	- Report Page				_	
SNIA	Solid State		U		LATENCY	- Response Time	e () ()=	:1		Rev.	PTS-E 1.1
SSS TWG	Performano	e Tes	st Spec	LATENCY - Response Time OIO=1					Page.	1 of 6	
Service:	Linode Cloud Hosting Instance Type:			1gb To			Tested By:			Harmony	
Test P	latform		Storage Platform Setup Parameters					Test Par	ameters		
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	Data Pattern		RND
Service	Linode Cloud Hosting	d	# Device	es	1	AR		100%	AR & Amount		100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test Stimulus 1		LAT Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEQ 128K W		RW Mix		Outer Loop
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	Zero	TOIO - TC/QD	TC 1/QD 1		Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TOI	IO - TC/QD	TC 1/QD 1
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	L	AT Loop	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 1	Histo	ogram	N/A
Test ID	linode-0814-0)1	Notes SS Rouds 1 - 5 To					TOI	IO - TC/QD	N/A	
Notes						Notes			Note	2	
	Steady State Convergence Plot - Average Latency - 100% Writes										



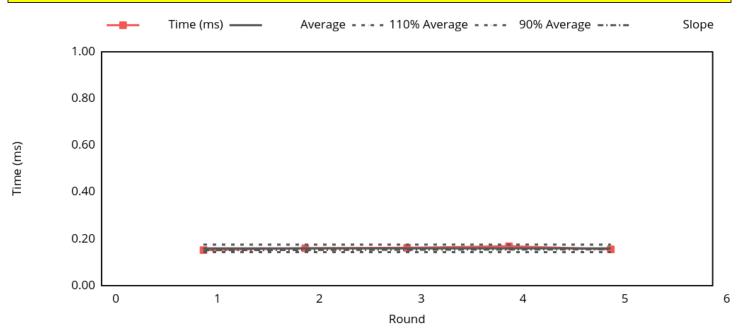
Plot A.7 - Steady State Convergence Plot - Average Latency - 100% Writes

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	/28/2014 02:58 UTC
					LATENCY Test	- Report Page					
SNIA	Solid Stat		•		LATENCY	- Resnonse Tim	e OIO:	=1		Rev.	PTS-E 1.1
SSS TWG	Performano	e Tes	st Spec	LATENCY - Response Time OIO=1					Page.	2 of 6	
Service:	Linode Cloud Hosting	Ins	stance Type:	ance Type: 1gb Tested By:						Harmony	
Test I	Platform		9	Storage	Platform	Setup Pa	aramete	s		Test Par	ameters
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	Data	Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100%	AR & Amount		100%
Region	newark		Device	S	/dev/xvdb	AR Segments		N/A		Stimulus 1	LAT Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SE	SEQ 128K W		Mix	Outer Loop
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	Zero	TOIO - TC/QD	Т	1/QD 1	Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X De	vice Capacity	TOI	IO - TC/QD	TC 1/QD 1
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	L	AT Loop	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	To	1/QD 1	Histo	ogram	N/A
Test ID	linode-0814-0	01	Notes	res SS Rouds 1 - 5 TC					TOI	IO - TC/QD	N/A
Notes						Notes			Note	2	
	Steady State Convergence Plot - Maximum Latency - 100% Writes										



Plot A.8 - Steady State Convergence Plot - Maximum Latency - 100% Writes

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
					LATENCY Test	- Report Page				_	
SNIA	Solid Stat		•		LATENCY	- Response Time	e () ()=	:1		Rev.	PTS-E 1.1
SSS TWG	Performano	e Tes	st Spec	LATENCY - Response Time OIO=1					Page.	3 of 6	
Service:	Linode Cloud Hosting	Ins	stance Type:	1gb Tex				Tested By:			Harmony
Test P	latform		Storage Platform Setup Parameters						Test Para	ameters	
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	RND Data Patter		RND
Service	Linode Cloud Hosting	d	# Device	es	1	AR		100% AR & A		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test Stimulus 1		LAT Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEC	Q 128K W	RW	Mix	Outer Loop
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	Zero	TOIO - TC/QD	TC 1/QD 1		Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TOI	O - TC/QD	TC 1/QD 1
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	L	AT Loop	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 1	Histo	ogram	N/A
Test ID	linode-0814-0	01	Notes SS Rouds 1 - 5					TOI	IO - TC/QD	N/A	
Notes						Notes			Note	2	
	Steady State Measurement Window - RND/4KiB										



Plot A.9 - Steady State Measurement Window - RND/4KiB

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
					LATENCY Test	- Report Page					
SNIA	Solid Stat		•		LATENCY - Response Time OIO=1						PTS-E 1.1
SSS TWG	Performano	e Tes	st Spec	Externel Response time 616 1					Page.	4 of 6	
Service:	Linode Cloud Hosting	Ins	stance Type:	nce Type: 1gb Tested By:						farmony	
Test	Platform			Storage Platform Setup Parameters						Test Par	
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND	Data	Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100%	AR & Amount		100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test	Stimulus 1	LAT Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEQ 128K W		RW Mix		Outer Loop
СРИ	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	Zero	TOIO - TC/QD	ТС	1/QD 1	Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X De	vice Capacity	TOI	O - TC/QD	TC 1/QD 1
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	L	AT Loop	Ste	ady State	1 - 5
Test SW			Drive Inte	rface		TOIO - TC/QD	TO	1/QD 1	Histo	ogram	N/A
Test ID	linode-0814-0	01	Notes	s SS Rouds 1 - 5 T					TOI	O - TC/QD	N/A
Notes						Notes			Note	:	
Average and Maximum Response Time - All RW Mix & BS - Tabular Data											

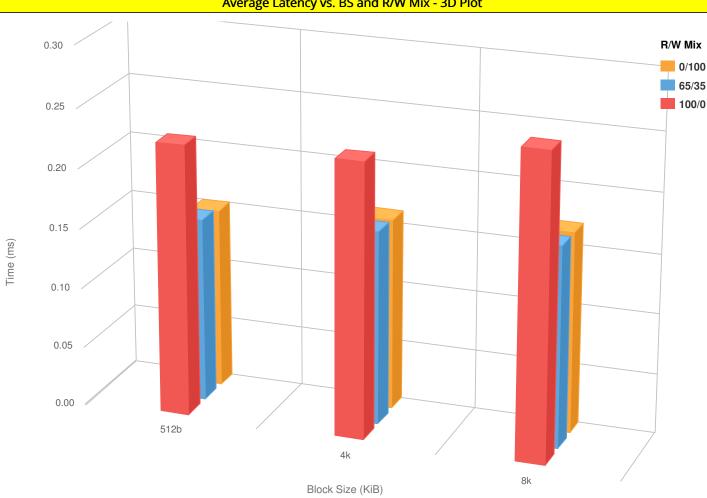
 10.000.000

Average Response Time (ms)								
Diode Sino (KiD)	Read / Write Mix %							
Block Size (KiB)	0/100	65/35	100/0					
512b	0.149724	0.153186	0.225818					
4k	0.159608	0.161386	0.22898					
8k	0.167504	0.16703	0.255142					

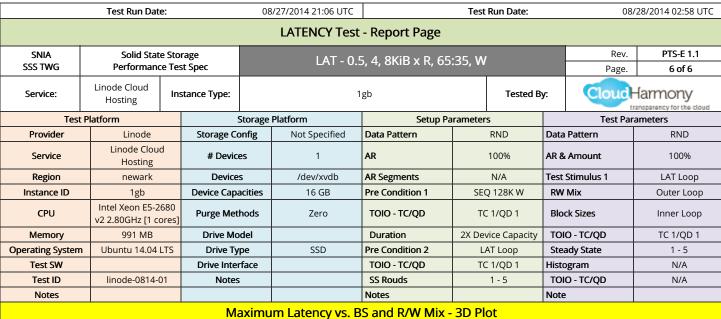
Maximum Response Time (ms)								
Plack Size (ViD)	Read / Write Mix %							
Block Size (KiB)	0/100	0/100 65/35						
512b	93.4	53.0466	15.8726					
4k	120.6748	56.3558	23.6748					
8k	26.9242	23.1738	27.811					

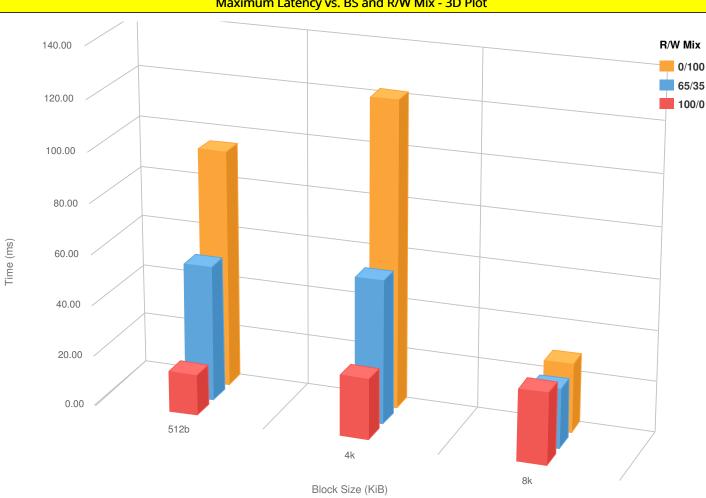
Plot A.10 - Average and Maximum Response Time - All RW Mix & BS - Tabular Data

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test Run Date: 08/28/2014 02:58 UTC				
					LATENCY Test	- Report Page					
SNIA	I A I FN(V - Desponse Time ()()=1							Rev.	PTS-E 1.1		
SSS TWG	Performan	e Tes	st Spec		Bullion	Response IIII	c 010			Page.	5 of 6
Service:	Linode Cloud Hosting	Ins	Instance Type: 1gb Tested By:						Harmony		
Test I	Platform			Storage	Platform	Setup Pa	arameter	s		Test Par	ameters
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data P		Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100% AR &		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments	N/A		Test	Stimulus 1	LAT Loop
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SE	SEQ 128K W		Mix	Outer Loop
СРИ	Intel Xeon E5-2 v2 2.80GHz [1 c		Purge Met	hods	Zero	TOIO - TC/QD	TO	1/QD 1	Blo	ck Sizes	Inner Loop
Memory	991 MB		Drive Mo	del		Duration	2X De	vice Capacity	TOI	O - TC/QD	TC 1/QD 1
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	L	AT Loop	Ste	ady State	1 - 5
Test SW			Drive Inte	face		TOIO - TC/QD	TC	1/QD 1	Histo	ogram	N/A
Test ID	linode-0814-	01	Notes			SS Rouds		1 - 5	TOI	O - TC/QD	N/A
Notes						Notes			Note	•	
	Average Latency vs. BS and R/W Mix - 3D Plot										



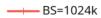
Plot A.11 - Average Latency vs. BS and R/W Mix - 3D Plot

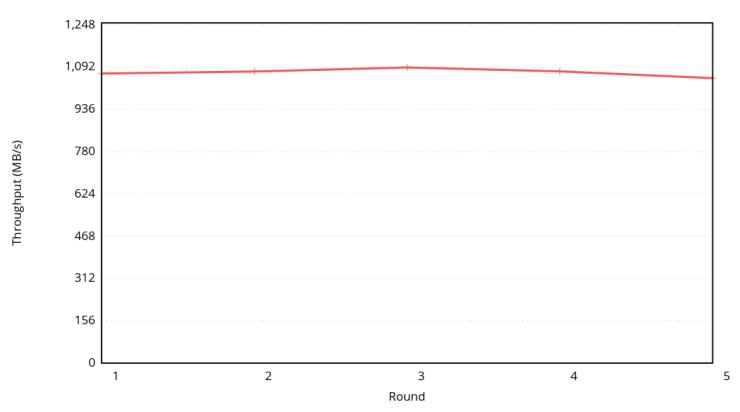




Plot A.12 - Maximum Latency vs. BS and R/W Mix - 3D Plot

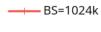
	Test Run Dat	e:		08	/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
				Т	HROUGHPUT Te	est - Report Pag	e				
SNIA					TP - SEQ 1024KiB & 128KiB Rev. PTS-E						
SSS TWG	Performano	e Tes	st Spec		11 - 31	.Q 102+111D & 12	.OINID			Page.	1 of 10
Service:	Linode Cloud Hosting	Instance Type:			1gb Te						Harmony
Test P	latform		:	Storage Platform Setup Parameters				Test Para			
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data F		Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100% AF		Amount	100%
Region	newark		Device	evices /dev/xvdb		AR Segments		N/A	Test	Stimulus 1	SEQ 1024KiB
Instance ID	1gb		Device Capa	pacities 16 GB Pre Condition 1 SEQ		Q 128K W	RW Mix		100:0 / 0:100		
CPU	Intel Xeon E5-2 v2 2.80GHz [1 ce		Purge Met	hods	None	TOIO - TC/QD	TO	1/QD 1	Blo	ck Sizes	SEQ 1024KiB
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TOI	O - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	SEC	Q 128K W	Ste	ady State	1 - 5
Test SW			Drive Inte	rface		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB
Test ID	linode-0814-0	01	Notes			SS Rouds		1 - 5	TOI	O - TC/QD	TC 1/QD 32
Notes						Notes			Ste	ady State	1 - 5
	Throughput Test - SS Convergence - Write 1024KiB										

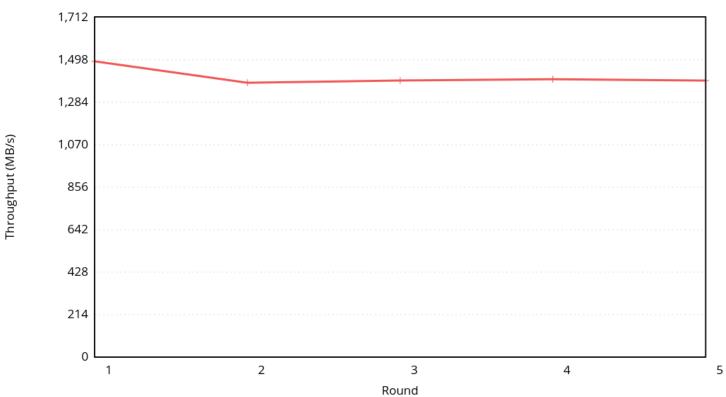




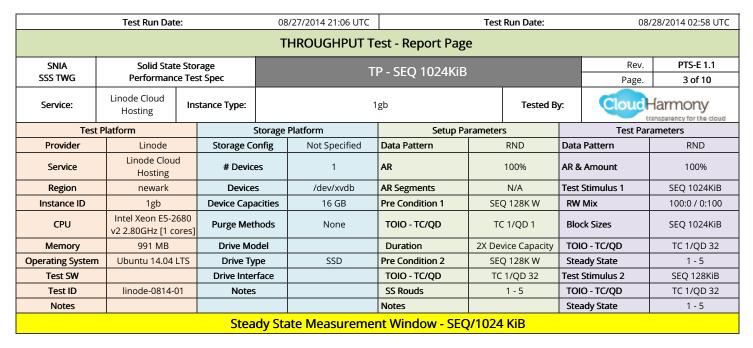
Plot A.13 - Throughput Test - SS Convergence - Write 1024KiB

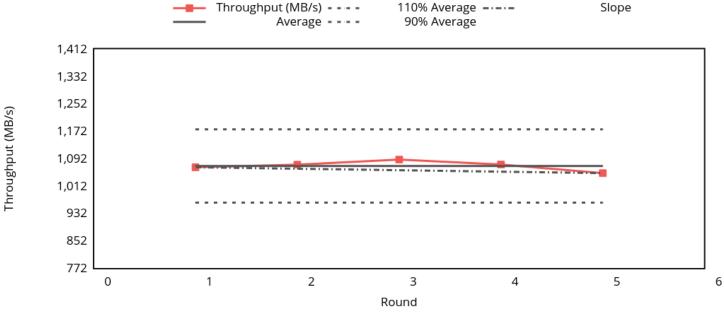
	Test Run Date	e:		08	3/27/2014 21:06 UTC	4 21:06 UTC Test Run Date: 08/28/2014 02:58 UT					/28/2014 02:58 UTC
				Т	HROUGHPUT T	est - Report Page	e				
SNIA SSS TWG					Т	P - SEQ 1024KiB				Rev. Page.	PTS-E 1.1 2 of 10
Service:	Linode Cloud Hosting		tance Type:	1gb Tes					y:	Cloud	Harmony
Test I	Platform		9	Storage Platform Setup Parameters				Test Par	Test Parameters		
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data P		Pattern	RND
Service	Linode Cloud Hosting	t	# Device	es	1	AR		100% AR &		k Amount	100%
Region	newark		Device	Devices /dev/xvdb AR Segment		AR Segments		N/A	Test	Stimulus 1	SEQ 1024KiB
Instance ID	1gb		Device Capa	cities	16 GB	Pre Condition 1	SEQ 128K W		RW	/ Mix	100:0 / 0:100
СРИ	Intel Xeon E5-20 v2 2.80GHz [1 co		Purge Met	hods	None	TOIO - TC/QD	TO	1/QD 1	Blo	ck Sizes	SEQ 1024KiB
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TO	IO - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04 l	TS.	Drive Ty	pe	SSD	Pre Condition 2	SEC	Q 128K W	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB
Test ID	linode-0814-0	1	Notes			SS Rouds		1 - 5	TO	IO - TC/QD	TC 1/QD 32
Notes						Notes			Ste	ady State	1 - 5
	Throughput Test - SS Convergence - Read 1024 KiB										





Plot A.14 - Throughput Test - SS Convergence - Read 1024 KiB





Steady State Determination Data

Average Throughput:			1072
Allowed Maximum Data Excursion:	214.476	Measured Maximum Data Excursion:	39.48
Allowed Maximum Slope Excursion:	107.238	Measured Maximum Slope Excursion:	13.5
Least Squares Linear Fit Formula:			-3.366 * R + 1082.478

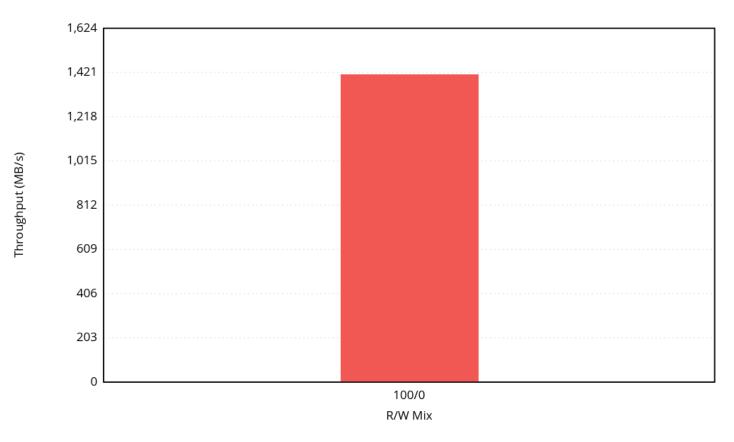
Plot A.15 - Steady State Measurement Window - SEQ/1024 KiB

	Test Run Dat	e:		80	3/27/2014 21:06 UTC		Test	08/27/2014 21:06 UTC Test Run Date: 08/28/2014 02:				
				Т	HROUGHPUT T	est - Report Pag	e					
SNIA Solid State Storage SSS TWG Performance Test Spec					TP - SEO 1024KiB						PTS-E 1.1 4 of 10	
Service:	Linode Cloud Hosting			1	gb	Tested By	y:		farmony			
Test I	Platform			Storage Platform Setup Parameters		Test Para	ameters					
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data		Pattern	RND	
Service	Linode Clou Hosting	d	# Device	es	1	AR		100% AF		Amount	100%	
Region	newark		Device	s	/dev/xvdb	AR Segments		N/A	Test Stimulus 1		SEQ 1024KiB	
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEC	Q 128K W	RW Mix		100:0 / 0:100	
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	None	TOIO - TC/QD	TO	1/QD 1	Blo	ck Sizes	SEQ 1024KiB	
Memory	991 MB		Drive Mo	del		Duration	2X Dev	vice Capacity	TOI	O - TC/QD	TC 1/QD 32	
Operating System	Ubuntu 14.04	LTS	Drive Ty	ре	SSD	Pre Condition 2	SEC	Q 128K W	Ste	ady State	1 - 5	
Test SW			Drive Inte	rface		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB	
Test ID	linode-0814-0	01	Notes	;		SS Rouds		1 - 5	TOI	O - TC/QD	TC 1/QD 32	
Notes						Notes			Ste	ady State	1 - 5	
	Throughput - All RW Mix & BS - Tabular Data 1024KiB											

Block Size (KiB)	Read / Write Mix %							
DIOCK SIZE (KID)	0/100	100/0						
1024k	1072.38	1411.83						

Plot A.16 - Throughput - All RW Mix & BS - Tabular Data 1024KiB

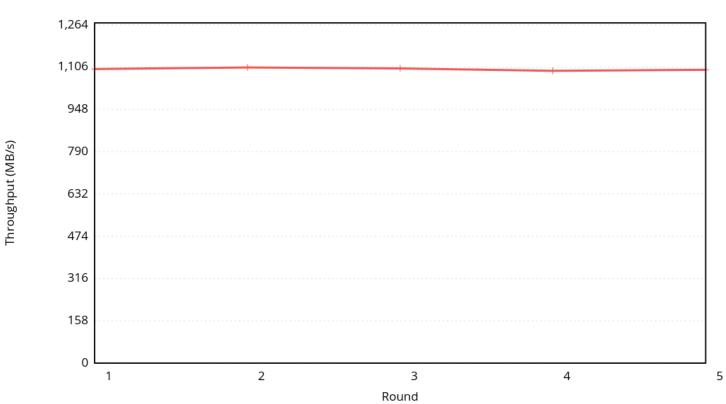
	Test Run Dat	e:		08	/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
				Т	HROUGHPUT T	est - Report Page	е			_	
SNIA					TP - SEQ 1024KiB						PTS-E 1.1
SSS TWG	Performano	e Tes	st Spec			. 320 102 1188				Page.	5 of 10
Service:	Linode Cloud Hosting	Ins	stance Type:		1gb			Tested By	y:		Harmony
Test P	latform		9	Storage Platform Setup Parameters					Test Para		
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data		Pattern	RND
Service	Linode Cloud Hosting	d	# Device	es	1	AR		100%		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments		N/A	Test Stimulus 1		SEQ 1024KiB
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEC	Q 128K W	RW Mix		100:0 / 0:100
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	None	TOIO - TC/QD	TC	1/QD 1	Blo	ck Sizes	SEQ 1024KiB
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TOI	IO - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	SEC	Q 128K W	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB
Test ID	linode-0814-0	01	Notes			SS Rouds		1 - 5	TOI	IO - TC/QD	TC 1/QD 32
Notes						Notes			Ste	ady State	1 - 5
	Throughput - All RW Mix & BS - 2D Plot 1024KiB										



Plot A.17 - Throughput - All RW Mix & BS - 2D Plot 1024KiB

	Test Run Dat	e:		08	/27/2014 21:06 UTC		Test	Run Date:		08/	28/2014 02:58 UTC
				Т	HROUGHPUT Te	est - Report Pag	e				
SNIA	Solid Stat		•		TP - SEQ 128KiB						
SSS TWG	Performano	e Tes	t Spec		H - SEQ IZBRID					Page.	6 of 10
Service:	Linode Cloud Hosting	Ins	tance Type:	Type: 1gb				Tested By:			Harmony
Test P	latform		9	Storage Platform Setup Parameters					Test Para		
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data		Pattern	RND
Service	Linode Cloud Hosting	d	# Device	es	1	AR		100%		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments		N/A	Test Stimulus 1		SEQ 1024KiB
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEC	Q 128K W	RW Mix		100:0 / 0:100
CPU	Intel Xeon E5-2 v2 2.80GHz [1 co		Purge Met	hods	None	TOIO - TC/QD	TC	1/QD 1	Blo	ck Sizes	SEQ 1024KiB
Memory	991 MB		Drive Mo	del		Duration	2X Dev	vice Capacity	TO	O - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	SEC	Q 128K W	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB
Test ID	linode-0814-0	01	Notes			SS Rouds		1 - 5	TO	O - TC/QD	TC 1/QD 32
Notes						Notes			Ste	ady State	1 - 5
	Throughput Test - SS Convergence - Write 128KiB										

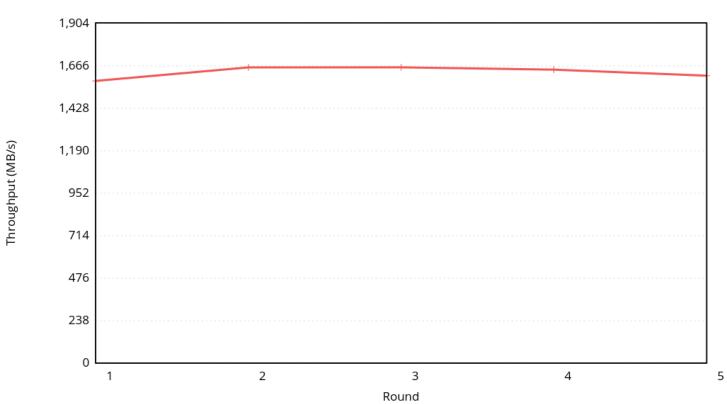




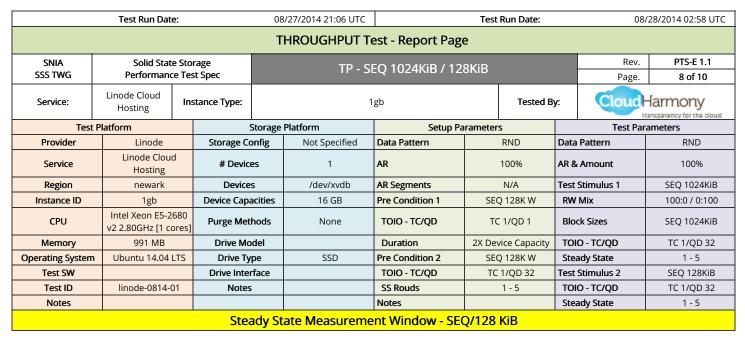
Plot A.18 - Throughput Test - SS Convergence - Write 128KiB

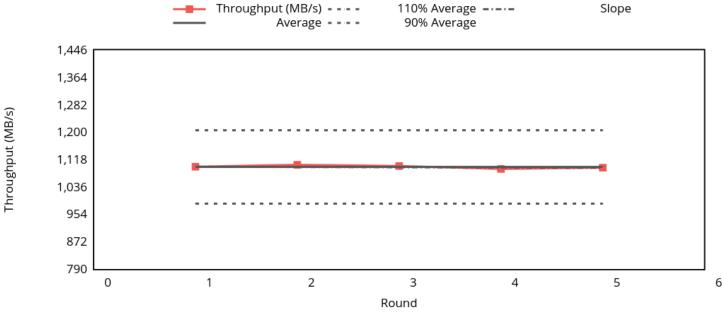
	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	/28/2014 02:58 UTC
				Т	HROUGHPUT Te	est - Report Pag	e				
SNIA	SNIA Solid State Storage				TP - SI	EQ 1024KiB / 12	9KiB			Rev.	PTS-E 1.1
SSS TWG	Performan	e Tes	st Spec		11 - 31	-Q 102 -1 1111/12	OIND			Page.	7 of 10
Service:	Linode Cloud Hosting	Instance Type:			1gb			Tested By	y:		Harmony
Test I	Platform		9	Storage Platform Setup Parameters					Test Para	ameters	
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern		RND Data F		Pattern	RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100% AR		Amount	100%
Region	newark		Device	Devices /dev/xvdb		AR Segments		N/A	Test	Stimulus 1	SEQ 1024KiB
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEC	Q 128K W	RW Mix		100:0 / 0:100
СРИ	Intel Xeon E5-2 v2 2.80GHz [1 c		Purge Met	hods	None	TOIO - TC/QD	TO	1/QD 1	Blo	ck Sizes	SEQ 1024KiB
Memory	991 MB		Drive Mo	del		Duration	2X Dev	ice Capacity	TOI	O - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	SEC	Q 128K W	Ste	ady State	1 - 5
Test SW			Drive Inter	face		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB
Test ID	linode-0814-	01	Notes			SS Rouds		1 - 5	TOI	O - TC/QD	TC 1/QD 32
Notes						Notes			Ste	ady State	1 - 5
	Throughput Test - SS Convergence - Read 128KiB										





Plot A.19 - Throughput Test - SS Convergence - Read 128KiB





Steady State Determination Data

,			
Average Throughput:			1098
Allowed Maximum Data Excursion:	219.6692	Measured Maximum Data Excursion:	12.29
Allowed Maximum Slope Excursion:	109.8346	Measured Maximum Slope Excursion:	7.3
Least Squares Linear Fit Formula:			-1.829 * R + 1103.833

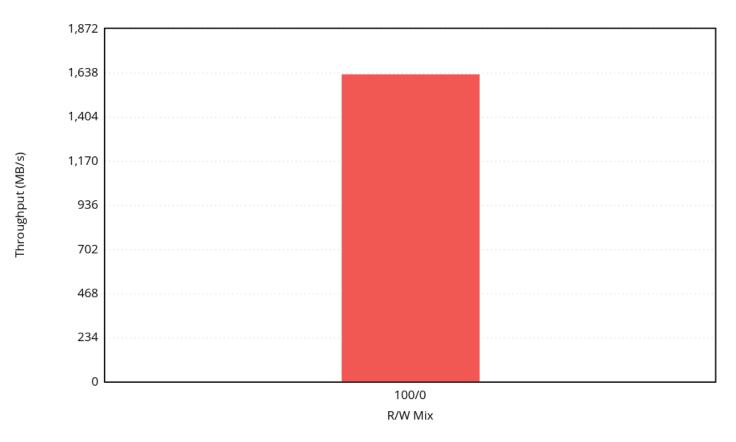
Plot A.20 - Steady State Measurement Window - SEQ/128 KiB

	Test Run Dat	e:		08	3/27/2014 21:06 UTC		Test	Run Date:		08/	/28/2014 02:58 UTC
				Т	HROUGHPUT To	est - Report Pag	e				
SNIA SSS TWG	IP - SEO 1024KiB / 128KiB						Rev. Page.	PTS-E 1.1 9 of 10			
Service:	Linode Cloud Hosting	Ins	stance Type:		1gb Tested By:				Cloud Harmony		
Test	Platform	•	!	Storage Platform Setup Parameters					Test Par	ameters	
Provider	Linode		Storage Co	onfig	Not Specified	Data Pattern	RND Data		Data Pattern		RND
Service	Linode Clou Hosting	d	# Device	es	1	AR		100% AR 8		Amount	100%
Region	newark		Device	s	/dev/xvdb	AR Segments		N/A	Test Stimulus 1		SEQ 1024KiB
Instance ID	1gb		Device Capa	acities	16 GB	Pre Condition 1	SEC	Q 128K W	RW Mix		100:0 / 0:100
СРИ	Intel Xeon E5-2 v2 2.80GHz [1 c		Purge Met	hods	None	TOIO - TC/QD	TO	1/QD 1	Blo	ck Sizes	SEQ 1024KiB
Memory	991 MB		Drive Mo	del		Duration	2X Dev	vice Capacity	TOI	O - TC/QD	TC 1/QD 32
Operating System	Ubuntu 14.04	LTS	Drive Ty	pe	SSD	Pre Condition 2	SEC	Q 128K W	Stea	ady State	1 - 5
Test SW			Drive Inte	rface		TOIO - TC/QD	TC	1/QD 32	Test	Stimulus 2	SEQ 128KiB
Test ID	linode-0814-	01	Notes	;		SS Rouds		1 - 5	TOI	O - TC/QD	TC 1/QD 32
Notes						Notes			Stea	ady State	1 - 5
	Throughput -All RW Mix & BS - Tabular Data 128KiB										

Block Size (KiB)	Read / Write Mix %						
DIOCK SIZE (KID)	0/100	100/0					
128k	1098.35	1630.65					

Plot A.21 - Throughput -All RW Mix & BS - Tabular Data 128KiB

Test Run Date:				08	/27/2014 21:06 UTC	Test Run Date:				08/28/2014 02:58 UTC	
THROUGHPUT Test - Report Page											
SNIA Solid State Storag			U		TP - SI	TP - SEQ 1024KiB / 128KiB				Rev.	PTS-E 1.1
SSS TWG	Performance Test Spec			11 324 102-11107 120110					Page.	10 of 10	
Service:	Linode Cloud Hosting Instance Type:			1gb				Tested By:		Cloud Harmony	
Test Platform			Storage Platform			Setup Parameters			Test Parameters		
Provider	Linode		Storage Config		Not Specified	Data Pattern	RND		Data Pattern		RND
Service	Linode Cloud Hosting		# Devices		1	AR	100%		AR & Amount		100%
Region	newark		Devices		/dev/xvdb	AR Segments	N/A		Test Stimulus 1		SEQ 1024KiB
Instance ID	1gb		Device Capacities		16 GB	Pre Condition 1	SEQ 128K W		RW	Mix	100:0 / 0:100
CPU	Intel Xeon E5-2680 v2 2.80GHz [1 cores]		Purge Methods		None	TOIO - TC/QD	TC 1/QD 1		Block Sizes		SEQ 1024KiB
Memory	991 MB		Drive Model			Duration	2X Device Capacity		TOIO - TC/QD		TC 1/QD 32
Operating System	Ubuntu 14.04 LTS		Drive Type		SSD	Pre Condition 2		SEQ 128K W		ady State	1 - 5
Test SW			Drive Interface			TOIO - TC/QD	TC 1/QD 32		Test Stimulus 2		SEQ 128KiB
Test ID	linode-0814-01 Notes				SS Rouds	1 - 5		TOIO - TC/QD		TC 1/QD 32	
Notes					Notes			Steady State		1 - 5	
Throughput -All RW Mix & BS - 2D Plot 128KiB											



Plot A.22 - Throughput -All RW Mix & BS - 2D Plot 128KiB