| jobid: 9778240 | uid: 59902 | nprocs: 4720 | runtime: 1005 seconds |

I/O performance *estimate* (at the MPI-IO layer): transferred 152266 MiB at 26.35 MiB/s
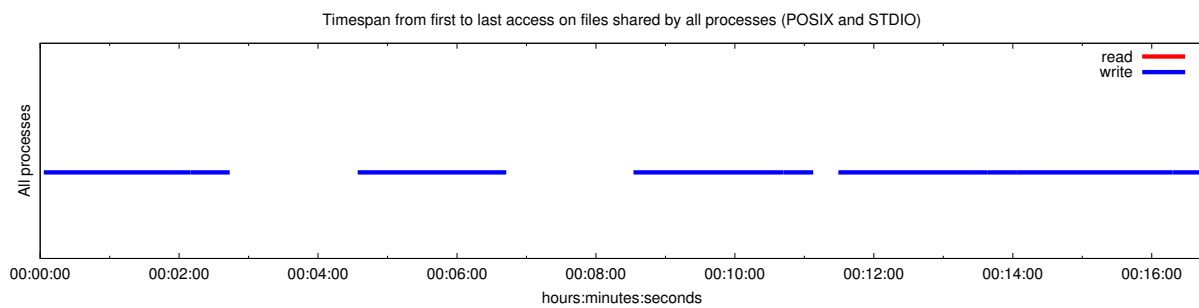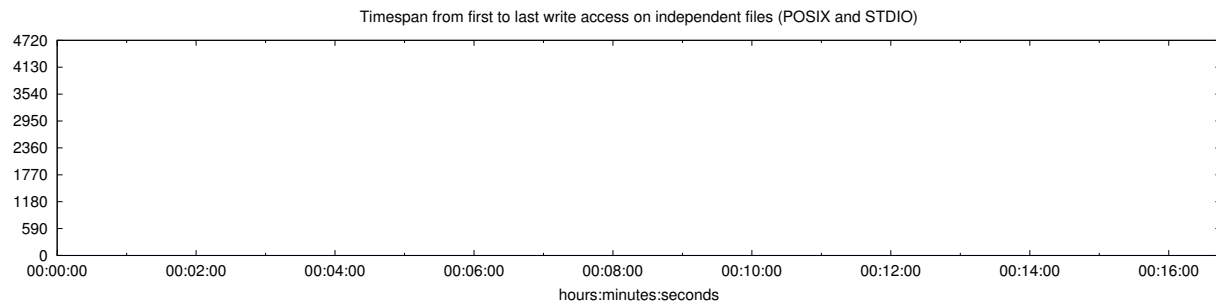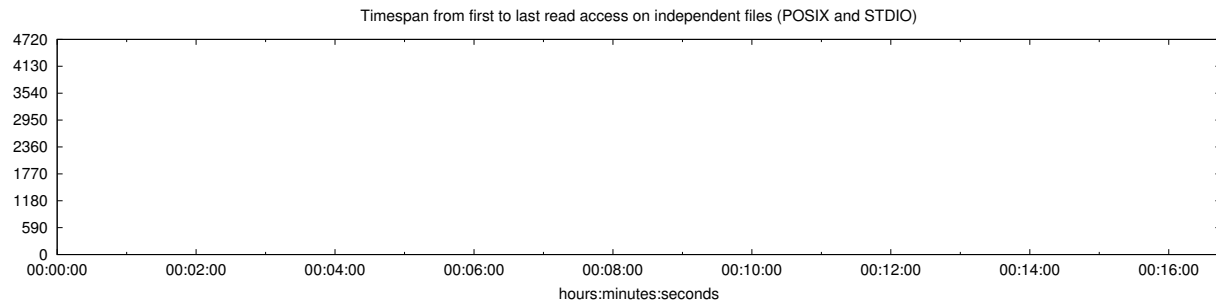I/O performance *estimate* (at the STDIO layer): transferred 0.1 MiB at 1673.25 MiB/s

Average I/O cost per process

I/O Operation Counts

POSIX Access Sizes
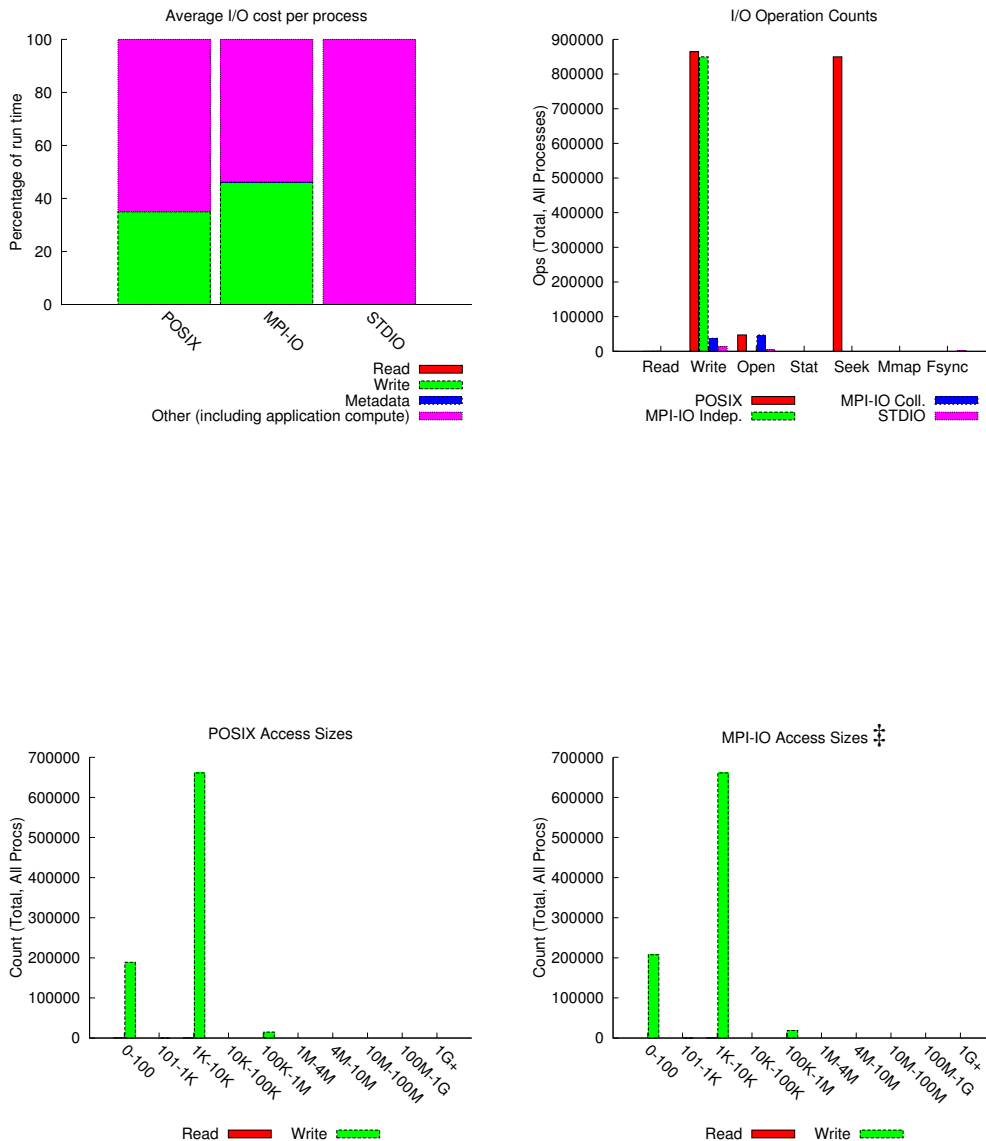
MPI-IO Access Sizes ‡

Most Common Access Sizes
(POSIX or MPI-IO)

	access size	count
POSIX	4096	660800
	68	47200
	64	47200
	24	23500
MPI-IO ‡	4096	660801
	68	47200
	64	47200
	24	23500

‡ NOTE: MPI-IO accesses are given in terms of aggregate datatype size.

File Count Summary
(estimated by POSIX I/O access offsets)

type	number of files	avg. size	max size
total opened	13	1.4G	3.7G
read-only files	1	2.1K	2.1K
write-only files	11	1.6G	3.7G
read/write files	0	0	0
created files	11	1.6G	3.7G

Timespan from first to last read access on independent files (POSIX and STDIO)

Timespan from first to last write access on independent files (POSIX and STDIO)

Timespan from first to last access on files shared by all processes (POSIX and STDIO)

Average I/O per process (POSIX and STDIO)

	Cumulative time spent in I/O functions (seconds)	Amount of I/O (MB)
Independent reads	0	0
Independent writes	-4.97520245677966	3.07652909876937e-05
Independent metadata	9.4978813559322e-07	N/A
Shared reads	7.58474576271186e-08	4.33194435248941e-07
Shared writes	351.779350835593	3.69557456404476
Shared metadata	0.523836218432203	N/A

Data Transfer Per Filesystem (POSIX and STDIO)

File System	Write		Read	
	MiB	Ratio	MiB	Ratio
UNKNOWN	0.14349	0.00001	0.00000	0.00000
/global/u2	0.00172	0.00000	0.00204	1.00000
/global/cscratch1	17443.11194	0.99999	0.00000	0.00000

POSIX I/O Pattern
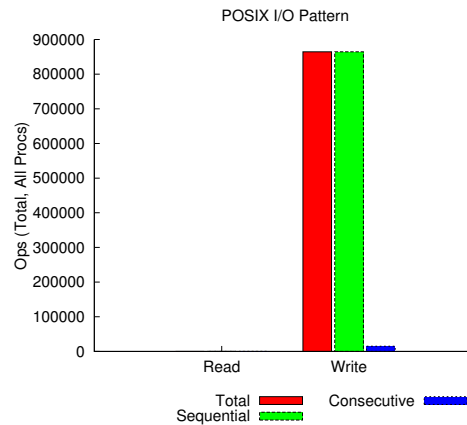
sequential: An I/O op issued at an offset greater than where the previous I/O op ended.
consecutive: An I/O op issued at the offset immediately following the end of the previous I/O op.

Variance in Shared Files (POSIX and STDIO)

File Suffix	Processes	Fastest			Slowest			σ	
		Rank	Time	Bytes	Rank	Time	Bytes	Time	Bytes
....00004.athdf	4720	4671	11.103321	113K	2170	116.193366	113K	17.9	30.2
....00003.athdf	4720	4653	15.146866	113K	2846	113.061995	113K	18.3	30.2
....00002.athdf	4720	4653	12.032638	113K	133	107.299659	113K	14	30.2
....00001.athdf	4720	4653	9.656681	113K	147	106.933986	113K	14	30.2
....00000.athdf	4720	4715	15.904428	113K	3225	105.009442	113K	13.5	30.2
...sk.00000.rst	4720	906	0.000148	0	0	21.277659	3.7G	0.31	5.67e+07
...sk.final.rst	4720	421	0.000831	0	0	20.902069	3.7G	0.304	5.67e+07
...sk.00001.rst	4720	2356	0.000753	0	0	20.756240	3.7G	0.302	5.67e+07
...sk.00002.rst	4720	2362	0.000738	0	0	20.744534	3.7G	0.302	5.67e+07
...t.globaldisk	4720	0	0.011353	2.1K	136	0.800817	0	0.127	31.2