EC2 instance	r6id.8xlarge	
FIO runtime	360s	
Network bw	12.5Gbps	~1.5GB/s
Fusion	v2.2.6	
AWS	v1.0.2	
RClone	v1.64.0	

MB/s

test	direct	op	file size	threads	RClone	AWS	Fusion	NVMe	comments
single_sequential_read	no	read	100GB	1	59.25	3.29	1,322.94	2,153.07	
mulitiple_sequential_read	no	read	100GB	1	85.15	3.28	5,931.35	7,582.82	1
sequential_read_four_threads	no	read	100GB	4	24.08	12.36	24,787.95	23,186.52	1
single_sequential_read_small_file	no	read	5MB	1	86.20	4.97	74.63	1,000.00	
multiple_sequential_read_small_file	no	read	5MB	1	18,961.54	18,161.49	16,856.70	18,848.72	3
sequential_read_four_threads_small_file	no	read	5MB	4	62,192.02	73,629.35	67,023.43	68,209.36	3
random_read	no	read random	100GB	1	1.48	1.44	2,212.56	5,288.57	5
random_read_four_threads	no	read random	100GB	4	6.63	7.36	8,494.86	27,399.28	5
random_read_four_threads_direct_io	no	read random	100GB	4	6.40	6.73	2,972.42	2,449.26	5
random_read_small_file	no	read random	5MB	1	19,109.10	18,617.96	15,415.17	18,105.16	3
random_read_four_threads_small_file	no	read random	5MB	4	76,770.56	77,578.75	69,168.07	75,277.71	3
sequential_write	no	write	-	1	137.53	not working	1,226.45	1,268.14	1
random_write	no	write random	-	1	0.00	not supported	1,391.18	1,822.86	4
sequential_read_direct_io	yes	read	100GB	1	80.38	1,377.81	1,939.81	1,925.88	2
sequential_read_four_threads_direct_io	yes	read	100GB	4	379.68	1,426.43	7,788.86	2,294.61	2
sequential_read_direct_io_small_file	yes	read	5MB	1	87.59	46.06	2,644.07	1,607.98	2
sequential_read_four_threads_direct_io_small_file	yes	read	5MB	4	351.59	277.16	10,433.68	2,447.42	2
random_read_direct_io	yes	read random	100GB	1	1.66	1.43	1,080.47	1,306.88	2
random_read_direct_io_small_file	yes	read random	5MB	1	10.05	7.02	2,408.06	1,320.79	2
random_read_four_threads_direct_io_small_file	yes	read random	5MB	4	44.38	52.92	10,331.85	2,379.06	2
sequential_write_direct_io	yes	write	100GB	1	139.45	1,410.05	1,781.72	1,209.83	

1. AWS has bad results without direct mode due to an open issue with Kernel prefetch
2. Fusion uses a disk cache that is partially cached using Kernel page. This speed up the read tests even when direct is enabled.
3. With small files all of them get good read results because most of the request are serve directly from Kernel page cache
4. Random write is not supported by AWS and RClone
5. Fusion random read on big files is better because it caches them on local disk