

Scheduling Coefficient

Report produced on 2022-05-02 for period: Apr 2022 .

Usage broken down by job size. Coefficient is $[\text{runtime} / (\text{waittime} + \text{runtime})]$ - fraction of job lifetime spent doing work.

Low Priority jobs are excluded from the analysis

All Jobs

Resource Pool	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
Archer2	144,309	144,778	5,899,909.865	3:00:56	1:25:06	0.735
Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	76,980	77,126	237,008.386	2:01:39	0:50:13	0.735
2	19,288	19,362	249,150.223	4:14:42	2:17:42	0.702
3-4	18,336	18,523	378,522.412	3:30:22	1:19:46	0.691
5-8	16,991	17,006	642,097.735	3:30:09	1:11:42	0.829
9-16	6,558	6,567	639,251.948	5:05:25	2:51:07	0.744
17-32	3,502	3,515	795,260.979	5:54:59	3:37:52	0.725
33-64	1,321	1,316	816,638.449	7:55:25	6:07:23	0.658
65-128	816	826	755,810.886	6:07:33	5:02:43	0.713
129-256	442	463	936,619.364	7:13:58	9:17:07	0.576
257-512	47	47	211,356.04	6:37:52	55:42:45	0.516
513-1024	20	19	224,771.93	8:11:08	34:50:16	0.275
1025-2048	8	8	13,421.513	0:33:00	16:50:42	0.038
	144,309	144,778	5,899,909.865	0:00:00	0:00:00	0

Runtime: 0-1 Hour

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	61,704	61,725	12,141.385	0:07:47	0:30:06	0.701
2	12,428	12,403	7,272.962	0:11:36	0:28:28	0.662
3-4	13,651	13,737	16,402.112	0:12:56	0:44:24	0.634
5-8	12,660	12,658	19,635.724	0:08:03	0:12:54	0.837
9-16	3,778	3,769	18,825.842	0:16:56	1:08:03	0.7
17-32	1,756	1,756	14,441.695	0:12:04	1:48:33	0.687
33-64	571	567	8,109.726	0:10:46	2:24:42	0.535
65-128	323	324	13,504.783	0:15:58	3:32:16	0.596
129-256	141	149	10,076.642	0:12:34	3:48:44	0.455
257-512	19	20	3,040.918	0:16:56	117:15:26	0.449
513-1024	3	3	1,826.204	0:23:34	38:07:57	0.029
1025-2048	6	6	5,113.277	0:17:14	17:34:49	0.019
	107,040	107,117	130,391.27	0:00:00	0:00:00	0

Runtime: 1-3 Hours

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	5,376	5,370	13,522.391	1:39:41	0:59:00	0.823
2	1,886	1,877	10,006.787	1:45:31	2:14:09	0.786
3-4	1,601	1,609	15,692.14	1:43:41	1:18:18	0.789
5-8	1,026	1,027	20,340.52	1:48:58	2:36:39	0.668
9-16	918	921	27,069.404	1:43:14	1:48:01	0.797
17-32	576	579	35,734.32	1:35:47	3:04:55	0.705
33-64	216	217	27,413.433	1:46:28	3:01:08	0.783
65-128	120	122	33,786.898	1:41:53	3:32:01	0.762
129-256	85	87	50,837.784	1:53:22	6:13:43	0.565

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
257-512	7	7	7,188.279	1:35:47	10:58:31	0.38
513-1024	2	2	5,802.665	2:23:04	31:42:35	0.109
1025-2048	2	2	8,308.236	1:20:18	14:38:24	0.092
	11,815	11,820	255,702.857	0:00:00	0:00:00	0

Runtime: 3-6 Hours

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	3,179	3,194	20,925.513	4:19:21	1:23:06	0.892
2	1,429	1,423	17,257.391	4:00:03	6:43:12	0.627
3-4	536	545	13,312.443	4:19:42	2:15:18	0.855
5-8	761	751	34,344.334	4:12:59	4:08:51	0.784
9-16	361	365	29,865.217	4:12:50	5:04:43	0.778
17-32	244	241	38,382.032	4:27:18	3:53:35	0.728
33-64	81	82	28,419.026	4:11:06	7:13:10	0.732
65-128	88	89	61,591.817	4:28:59	3:47:58	0.784
129-256	46	46	52,720.307	3:43:19	13:05:50	0.52
257-512	4	3	8,903.49	4:41:11	14:48:29	0.433
513-1024	5	5	28,694.181	4:10:06	56:00:08	0.131
	6,734	6,744	334,415.75	0:00:00	0:00:00	0

Runtime: 6-12 Hours

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	2,098	2,119	27,035.556	8:25:05	2:30:06	0.877
2	935	1,008	24,859.485	8:08:10	7:40:38	0.725
3-4	518	532	26,768.81	8:35:43	3:39:47	0.857
5-8	634	642	56,830.811	8:35:37	3:59:11	0.814
9-16	465	472	75,257.913	8:25:42	5:08:55	0.792
17-32	234	237	76,635.488	8:24:54	9:15:26	0.679
33-64	82	82	63,861.89	9:13:15	9:06:10	0.703
65-128	114	121	128,320.596	7:31:26	3:42:29	0.841
129-256	70	71	189,804.22	9:34:43	6:50:50	0.759
257-512	7	7	35,119.425	7:58:22	13:15:32	0.43
513-1024	5	5	61,890.399	8:43:57	14:40:00	0.516
	5,162	5,296	766,384.593	0:00:00	0:00:00	0

Runtime: 12-24 Hours

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	2,475	2,507	70,650.518	18:35:38	2:51:53	0.918
2	1,475	1,516	87,126.896	18:57:36	5:40:14	0.862
3-4	941	964	108,264.271	19:05:13	3:57:13	0.906
5-8	1,090	1,119	226,209.743	18:00:42	3:57:21	0.877
9-16	457	465	160,287.961	17:56:13	7:43:02	0.818
17-32	392	398	278,539.673	17:26:59	5:22:58	0.863
33-64	171	164	218,864.993	17:13:37	12:00:38	0.726
65-128	100	93	248,229.78	17:18:03	8:15:49	0.792
129-256	51	51	272,724.369	17:21:58	14:00:45	0.742
257-512	5	5	77,066.693	20:59:25	8:24:01	0.767
513-1024	3	2	52,054.228	18:32:07	29:17:24	0.403
	7,160	7,284	1,800,019.126	0:00:00	0:00:00	0

Runtime: 24- Hours

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
1	2,148	2,211	92,733.023	27:40:23	5:09:09	0.899

Nodes	Jobs Submitted	Jobs Run	Raw Usage / kAUs	Average Run Time / h	Average Wait Time / h	Scheduling Coefficient
2	1,135	1,135	102,626.703	29:49:47	7:26:52	0.869
3-4	1,089	1,136	198,082.635	29:49:08	4:43:51	0.9
5-8	820	809	284,736.603	33:34:14	5:57:30	0.901
9-16	579	575	327,945.61	29:25:52	8:33:42	0.83
17-32	300	304	351,527.771	31:16:14	8:18:50	0.835
33-64	200	204	469,969.381	29:29:30	13:22:11	0.766
65-128	71	77	270,377.013	24:00:13	13:26:15	0.745
129-256	49	59	360,456.04	24:00:14	23:29:25	0.576
257-512	5	5	80,037.235	24:00:14	3:27:26	0.894
513-1024	2	2	74,504.254	24:00:11	36:05:22	0.444
	6,398	6,517	2,612,996.269	0:00:00	0:00:00	0