

# Hardware Resources

Current IFCA computational resources (apart from the [High Performance Computing](#) resources) are shown here:

Name	Date	Model	Processor	Cores	HEP-SPEC	Memory	Hard Disk	Network	OS	Number of nodes	Total cores	Hostnames	Purpose	Status
acloud	May 2013	IBM dx360M4 idataplex	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz, 16 cpc	32	SPECint (632) / SPECfp(481)	64GB RAM (62 GB after VM )	435 GB	2 x Intel Corporation I350 Gigabit Network Connection	Ubuntu server 18.04	24	768	acloud01 to acloud24	General purpose (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
aitken	Sept 2015	IBM system x3850 X5	4 x Intel(R) Xeon(R) CPU E7- 4870 @ 2.40GHz, 20 cpc	80	SPECint (1100) / SPECfp(741)	1TB RAM (996 GB after VM )	259 GB	2 x Broadcom Corporation NetXtreme II BCM5709 Gigabit Ethernet	Ubuntu server 18.04	2	160	aitken01 to aitken02	General purpose (managed by <a href="#">Open Stack</a> )	Down
astro	Oct 2010	HP ProLiant DL585G7	4 x Amd Opteron 6176 SE, 12 cpc	48	330	256GB RAM (220 GB after VM )	860 GB	2 x Emulex OneConnect 10Gb / 4 x NetXen NX3031 Multifunction 1/10-Gigabit	Ubuntu server 16.04	5	240	astro01 to astro06	General purpose (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
cms	Jun 2011	Fujitsu PRIMERGY BX920 S2	2 x Intel(R) Xeon(R) CPU X5670 @ 2.93GHz, 6 Cores per proc	12	191.68 (HT) / 154.51 (no HT)	48GB RAM	250 GB	4 x Gbit Ethernet via midplane at Ethernet Connection Blade Ethernet	Ubuntu server 18.04	36	432	cms01 to cms36	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
cmsfj	Aug 2014	Fujitsu PRIMERGY BX924 S4	2 x Intel(R) Xeon(R) CPU E5-2697 v2 @ 2.70GHz, 12 cpc	24	415 (HT)	96 GB RAM	400 GB	2 x 10Gbit Emulex OneConnect	Ubuntu server 18.04	18	432	cmsfj01 to cmsfj18	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
cmshp	May 2013	HP ProLiant BL460c Gen8	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz, 8 cpc	16	305.83	128GB RAM	500 GB	HP FlexFabric 10Gb 2-port 554FLB	Ubuntu server 18.04	34	544	cmshp01 to cmsfj34	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
cmsln	Sept 2020	Lenovo ThinkSystem SD530	2x Intel(R) Xeon(R) Gold 6252 CPU @ 2.10GHz, 48 cpc	96		192Gb	450 GB	Intel Corporation Ethernet Connection X722 for 10GbE SFP+	Ubuntu server 18.04	20	1920	cmsln01 to cmsln20	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
fcloud	Jul 2020	Lenovo ThinkSystem SR630	2x Intel(R) Xeon(R) Gold 6230 CPU @ 2.10GHz, 40 cpc	80		755Gb	200 GB	Intel Corporation Ethernet Connection X722 for 10GBASE-T	Ubuntu server 18.04	5	400	fcloud01 to fcloud05	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
gpumad	Dec 2019	Lenovo ThinkSystem SR650	2x Intel(R) Xeon(R) Gold 6230 CPU @ 2.10GHz, 40 cpc  + 2x NVIDIA Corporation GV100GL 32Gb  + Infiniband EDR	80		188G	2Tb + 60Tb	Intel Corporation Ethernet Connection X722 for 10GBASE-T	Ubuntu server 18.04	20	1600	gpumad01 to gpumad20	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
gpu01	Nov 2017	Fujitsu R920 POWER	Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz  + 1 Nvidia 1080Ti	12		24GB RAM	900 GB	2 x Intel(R) Gigabit Ethernet Network Connection	Ubuntu server 18.04	1	12	gpu01	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
gpumax0x	Jan 2018	Supermicro 418-20	Intel(R) Xeon(R) CPU E5-2603 v4 @ 1.70GHz  + 10 GPUs Nvidia 1080Ti	12		192GB RAM	1.7 TB	2 x Intel(R) Gigabit Ethernet Network Connection	Ubuntu server 18.04	1	12	gpumax01	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
gpumax1x	Dec 2021	Supermicro 418	Intel(R) Xeon(R) Gold 5220R CPU @ 2.20GHz  + 8 GPUs Nvidia T4	96		384GB RAM	512 GB	2 x Intel(R) Gigabit Ethernet Network Connection	Ubuntu server 18.04	10	960	gpumax11 to gpumax20	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
mcloud	Feb 2021	DELL	Intel Xeon Gold 5220R 2.20 GHz	96		192GB RAM	4 x 1TB	2 x 10GB Intel(R) Ethernet Network Connection	Ubuntu server 18.04	8	768	mcloud01 to mcloud08	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
titan	Aug 2017	Fujitsu R920 POWER	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz, 8 cpc  + Nvidia TitanX	16		128GB RAM	900 GB	2 x Intel(R) Gigabit Ethernet Network Connection	Ubuntu server 18.04	1	16	titan	Computing nodes (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
icloud	May 2013	IBM dx360M4 idataplex	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz, 16 cpc  + Infiniband FDR	32	SPECint (632) / SPECfp(481)	32GB RAM (30 GB after VM )	435 GB	2 x Intel Corporation I350 Gigabit Network Connection	Ubuntu server 18.04	90	2880	icloud001 to icloud090	General purpose (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
ucloud_I	Jan 2012	SuperMicro MicroCloud 5037MC-H8TRF	Intel(R) Xeon(R) CPU E31260L @ 2.40GHz	8		16GB RAM	2 x 400 GB	2 Ethernet Gigabit	Ubuntu server 18.04	16	128	ucloud01 to ucloud16	General purpose (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>
ucloud_II	Feb 2012	SuperMicro MicroCloud 5037MC-H8TRF	Intel(R) Xeon(R) CPU E31270 @ 3.40GHz	8		16GB RAM	2 x 1 TB	2 Ethernet Gigabit	Ubuntu server 18.04	16	128	ucloud17 to ucloud32	General purpose (managed by <a href="#">Open Stack</a> )	Active <a href="#">bl ocked URL</a>