

# Filesystems



Bad performance for lots of (small) files.

	~Our size	Backup	Good for	Bad for
/hera/land	100 TB	NO	Large files	Software
/d/land{1,2}	2x10 TB	NO	Any files	Precious software
/u/land	500 GB	yes	Beam-time	

No backup!

XDU Disk Usage Display ('h' for help)

hera (85782)	land (85782)	stitched (2444)	lnd (2444)
		s412 (7724)	lnd (5124)
		s406 (3313)	lnd (2136)
		s393 (3284)	lnd (2230)
		s389 (1268)	
		s318 (3624)	lnd (3202)
		s296 (1846)	lnd (1647)
		oct2014_2 (1697)	lnd (1342)
		stitched (2793)	s438b (2793)
		oct2014 (5888)	lnd (2834)
		latac (3730)	RootFiles (1820)
		jnargan (14001)	simulation (13504)
			34Rr (4085)
			32Rr (7882)
		gasparic (5684)	s406 (2386)
		drossi (1683)	rootfiles (1456)
		d (5392)	land1 (3742)
			s296 (2332)
		apr2014 (5612)	sub (4295)
			psp (2351)
		anovses (3762)	s287 (3745)
			psp_aver_grids_22
		actar (1285)	

XDU Disk Usage Display ('h' for help)

d (11156)	land2 (11156)	theftrich (512)	rootfiles (432)	tracker (408)
		sofia (1000)	2014_10_test (357)	
			201410_CC (278)	lnd (278)
		sjaehr1 (440)	Rootfiles (389)	
		schindl (369)	sanuraineuland (301)	
		s408 (689)	lnd (609)	
		npohl (491)	s405 (491)	rootfiles (491)
		nheil (943)	Neuland (451)	lnd (372)
		latac (366)	Analysis (306)	tracker (278)
		jnargan (434)	rootfiles (590)	s393 (358)
		isyndikus (590)	rootfiles (590)	
		gribeiro (343)	rootfiles (343)	
		drossi (773)		
		clanger (764)	s327 (763)	
		Neuland (714)	2014 (714)	b (403)
				a (311)

XDU Disk Usage Display ('h' for help)

u (615)	land (615)	sr3b (30)		
		sofia (247)	SOFIR1 (241)	s415_2012_08 (126)
				analysis_guillaur
		data (61)		
		CALIFR2014 (74)	data (62)	

Depending on who you ask...:  
 ~ (.1)-.3-1 KEUR/TB/year

# Machines @ GSI

Machine	Threads	Rel. performance	(memory)
	#machines	Multi	One

## Desktops(?) + calc servers:

lxg0819	1	2	133	64	(4 GB)
lxg084{2..3,7..8}	4	2	137	72	(2 GB)
Lxg08{49..50}	2	2	97	58	(2 GB)
lxg08{54..56,58..62}	8	2	137	68	(4 GB)
lxg08{68..72}	5	4	309	80	(8 GB)
lxg08{97..99}	3	8	426	57	(24 GB)
			<b>SUM 4800</b>		

## File servers:

lxfs12		4	44	25	(4 GB)
lxir016		4	101	28	(4 GB)
lxfs186		16	768	72	(12 GB)

## For reference:

landmess		4	46	26	(2 GB)
Opteron270 (2005)		4	154	41	(max 16 GB)
E3-1240v3 (2013)		8	564	<b>100</b>	(max 32 GB)

See talks of Ronja and Simon about GNU parallel

# Why `land-data-description.USERNAME`

