

0-15	Donoul Lottion				
9:15	Renaud Lottiaux	Introduction			
9:30	Adrien Lebre	kDFS overview			
10:00	Paulo Lopes	GFS overview			
10:30	Coffee break				
11:00	Louis Rilling	Runtime configurable scheduler framework			
11:30	John Mehnert Spahn	Incremental checkpoint			
12:00	Matthieu Fertré	IPC and checkpointing			
12:30	Lunch				
14:00	Christine Morin	XtreemOS plans for the Kerrighed project			
14:15	Erich Focht	Kerrighed and Virtualization			
14:45	Rainer Finocchiaro	SCI and Kerrighed			
15:00	Renaud Lottiaux	Open discussion: file systems			
16:00	Coffee break				
16:30	Pascal Gallard	Open discussion: cluster reconfiguration			
17:30		Open discussion: misc			













Introduction

Renaud Lottiaux



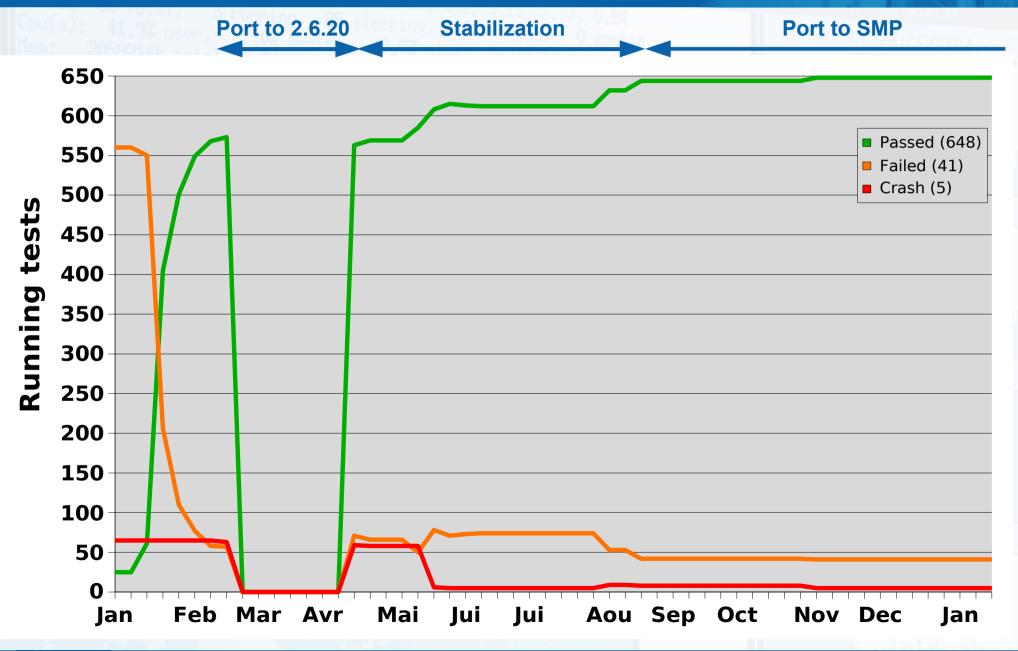


What's new since last summit ?

- Port to 2.6.20
- Port to SMP
- Code stabilization
 - More and more tests are running with KrgLTP
 - Tons of bug fixes
 - Missing feature fix
 - IPC + tons of missing code in corner cases
 - Major memory leak fixes
 - O(100 MB) memory leak per LTP in January
 - O(1 MB) memory leak today



Evolution of running tests with KrgLTP



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What's new since last summit ? (con'd)

- New scheduler infrastructure
- Full IPC support
- New networking stack
 - Use of TIPC instead of the "home made" comm layer.
- 64 Bits (still on going)





2.0.0 : March'07
End of the 2.6 port (2.6.11)
2.1.0 : June'07
 Port to 2.6.20
2.1.1 : August'07
 Minor fixes
2.2.0 : November'07
 SMP support
2.2.1 : January'08
 Minor fixes
2.3.0 (planned)
 64 bits support
6 releases in one year !
The project has never been so active









- 64 bits (Kerlabs team)
- Last SMP bug fixes (Kerlabs team)
- Swap and injection support (Renaud)
- Checkpoint/restart of distributed processes (Matthieu / John)
- kDFS (Adrien)
- Still lot of debugging (Kerlabs team)







Kerlabs Roadmap

vu(s): 41.9% user.	unning, 85 sleeping, 0	V 2.2.0	V 2.3.0	2008	15KI 34
Memory	Memory sharing				C/015/1101
IVIEITIOI y	Injection				
D USER Disk PR 11	Distributed FS				
DISK	Unique file name space				e as dealars.
52 root 10 0	Process migration				estern millet
52 rlottiau 9 0	Thread migration				
Processor	Scheduler				E/515/1101
2 poot 8 0	Unique PID space				
	Advances features				
	Memory segments				s a chaithead
IPC	Message queues				a service of the serv
	Semaphores				
Communications	Migrable streams				EZSTSZ 1100
Communications	High performance				
	Process				
Checkpoint	Applications				
	Open files				
	64 bits support				
	SMP support				EZSTSZ (LADI
Misc	Overall stability				
- Martin Carlos	Node addition/removal				
CONSTRUCTION OF	System high availability				

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KrgLTP Policy Roadmap

KrgLTP must follow the support of SMP and 64 bits

- No commit in the trunk which could break this new support
- Current reference cluster
 - 32 bits machines
 - SMP
- February / March
 - 64 bits machines
 - SMP
- New LTP test script
 - krgltp-smp.sh
 - Will soon become the official one



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- Regular developer phone conference
 - Regular conference (1 hour / 2 weeks ?)
 - Open to every Kerrighed developer
- New community forge to host the code
 - Migration to GIT is more and more likely to happen
 - Which GIT server ?
 - Still an open discussion
 - Kerlabs is thinking in hosting a public GIT server
- Kerlabs will soon open a public LXR server
 - Full LXR server with most previous versions of Kerrighed

ISR/NICE/SYS/1010

KERL

