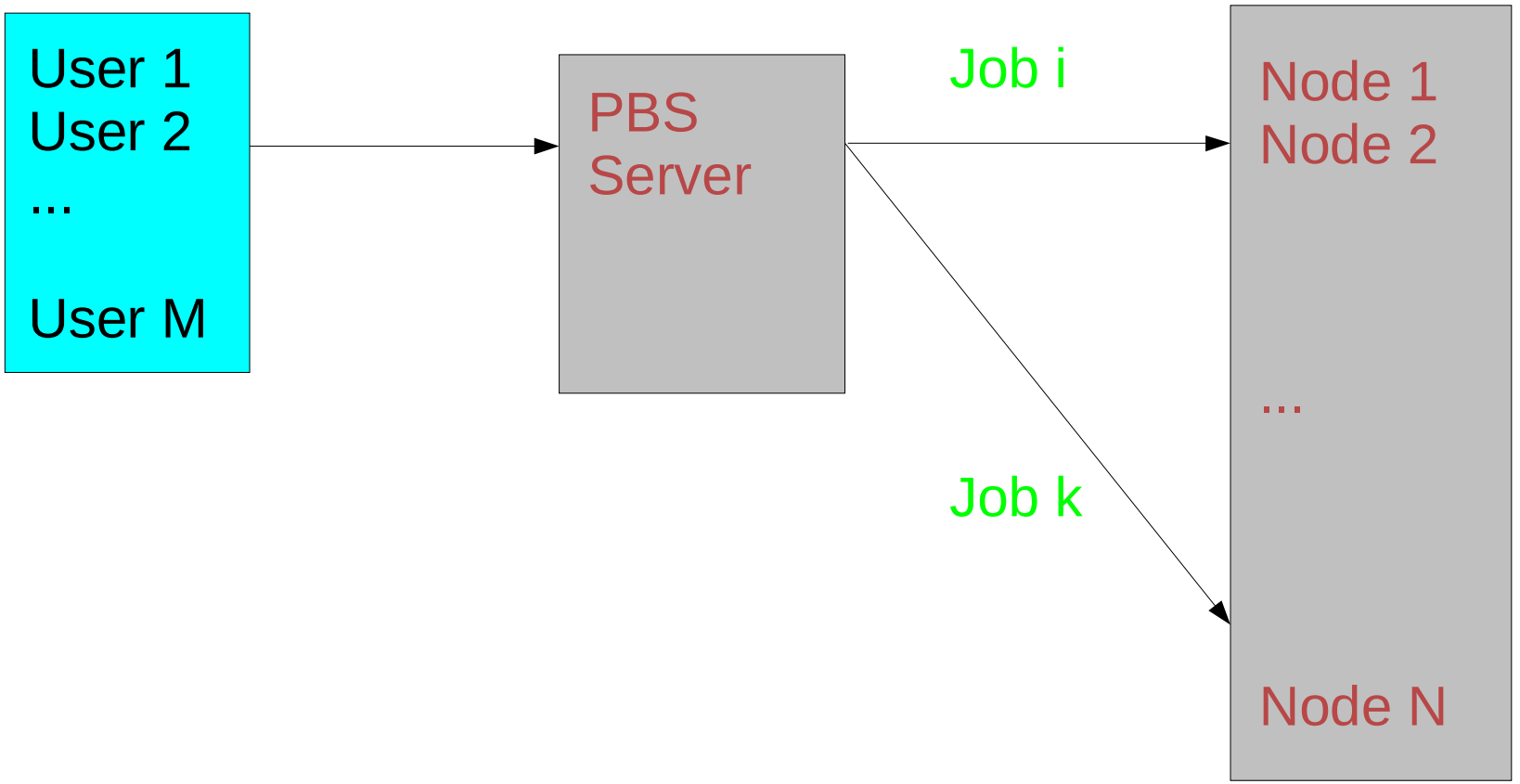
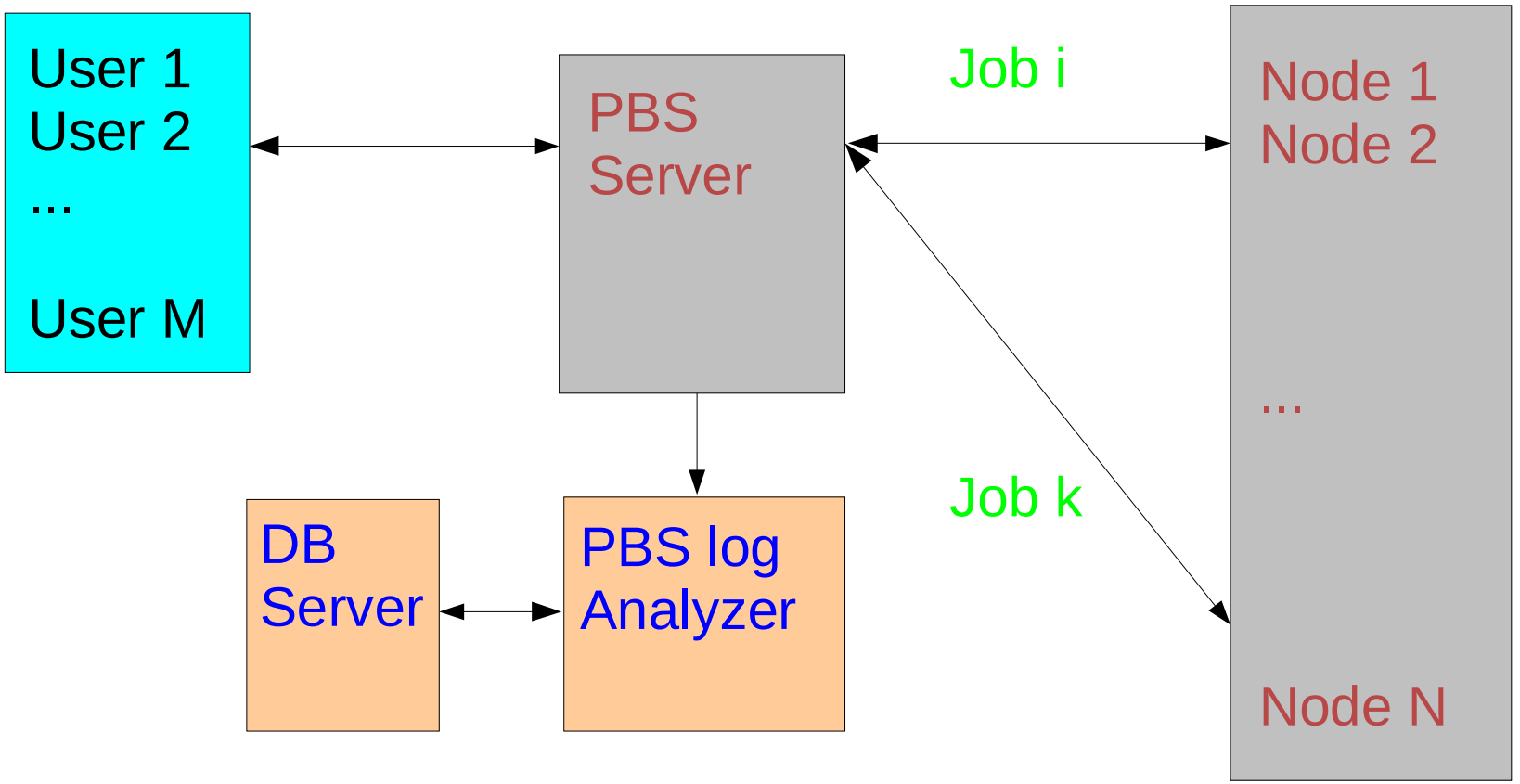
- Introduction
- Monitoring System Overview
- Demonstration
- Conclusions and Roadmap

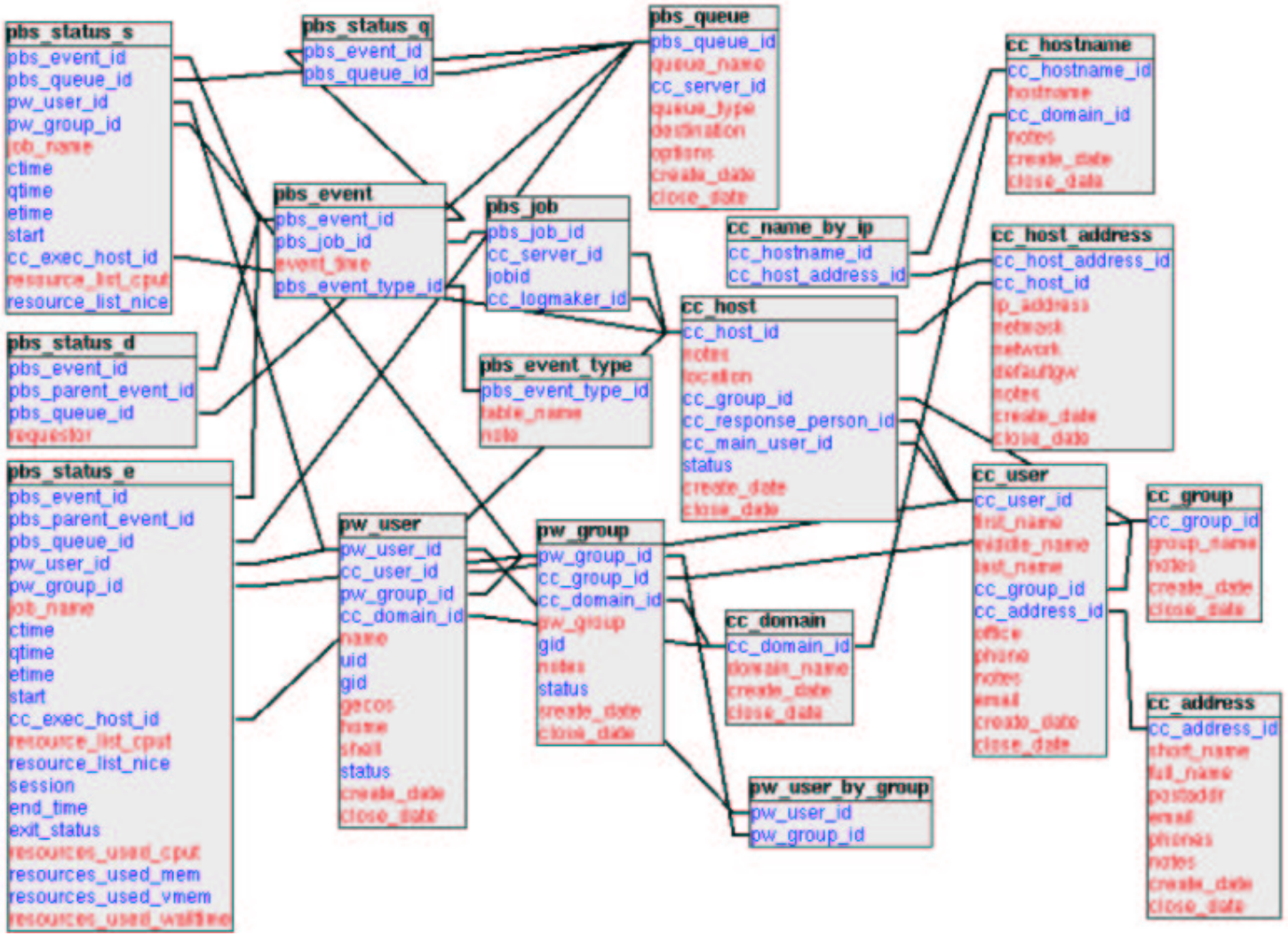
Batch System Scheme



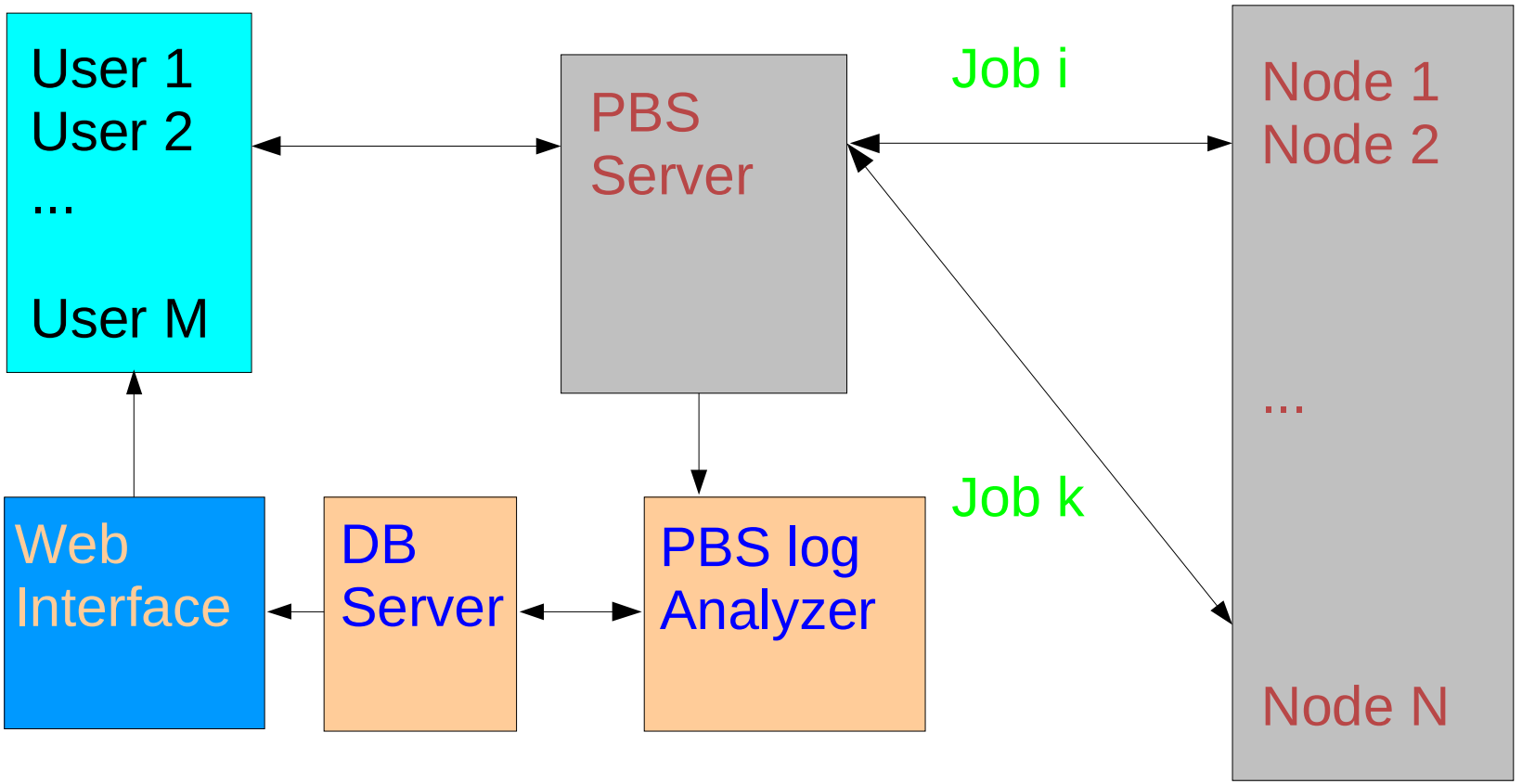
Monitoring System Scheme

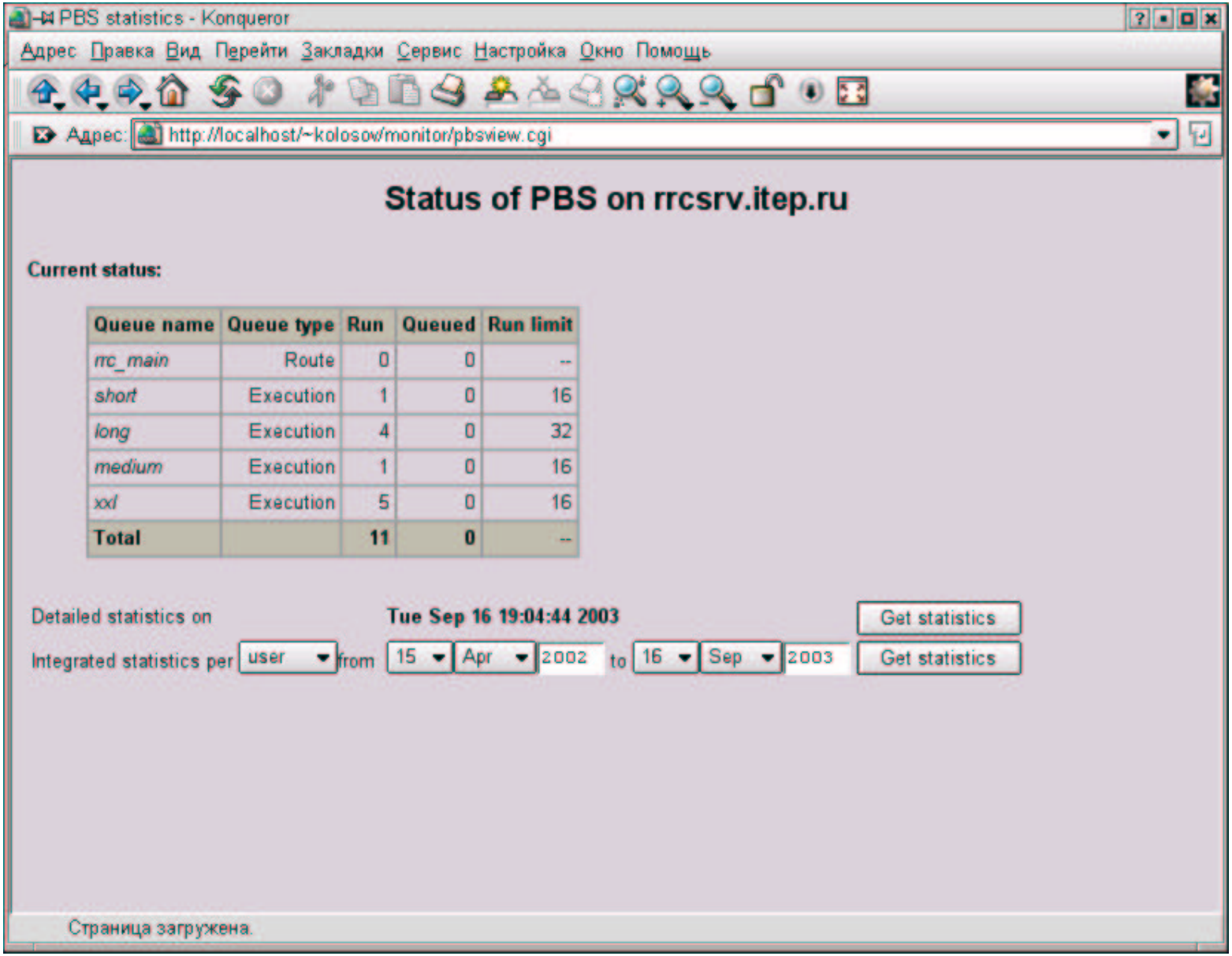


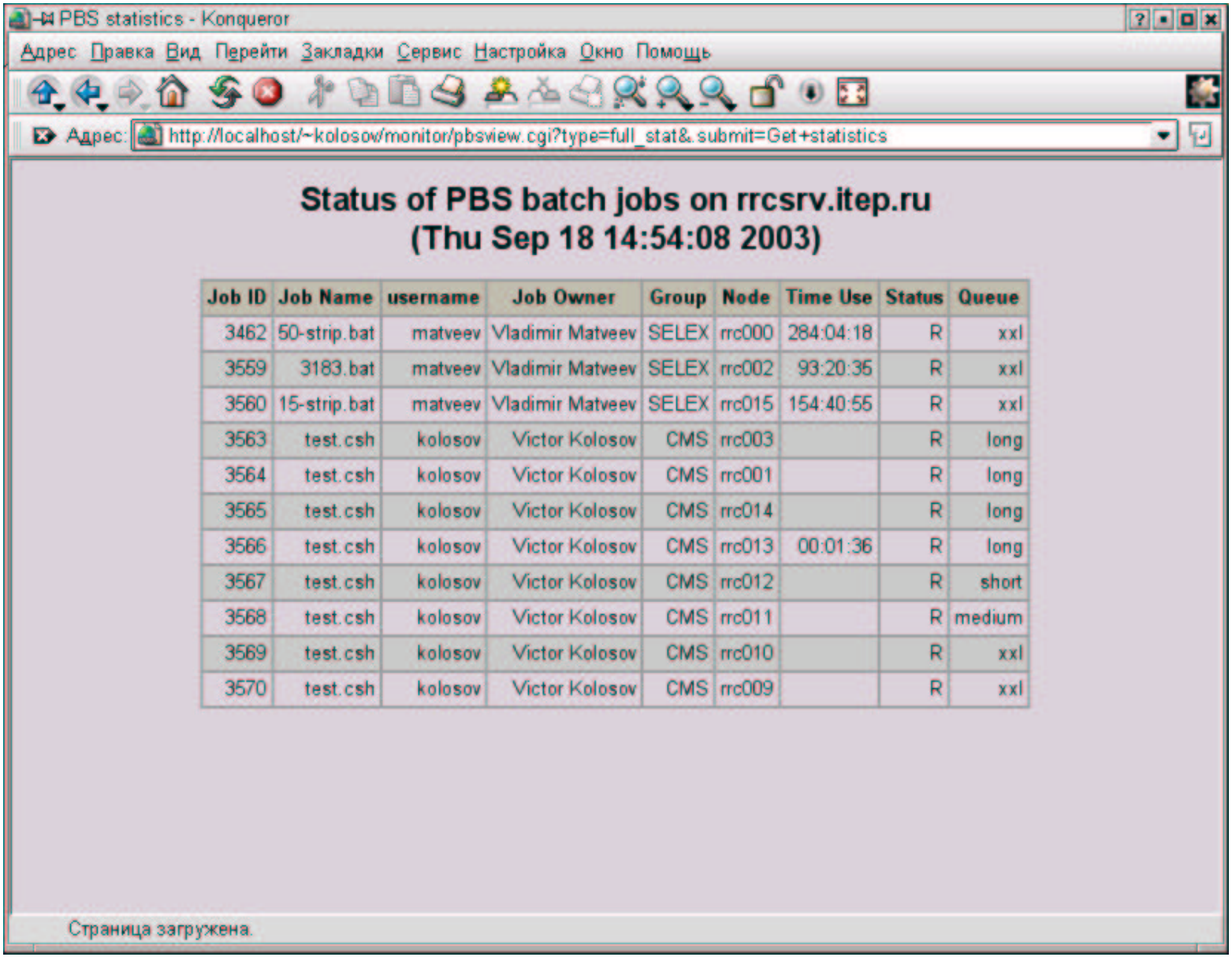
V.Kolosov, Monitoring System for OpenPBS
NEC'2003, Varna, Bulgaria



Monitoring System Scheme




PBS statistics - Konqueror
Адрес Правка Вид Перейти Закладки Сервис Настройка Окно Помощь
Адрес: http://localhost/~kolosov/monitor/pbsview.cgi
Status of PBS on rrcsrv.itep.ru
Current status:
Queue name | Queue type | Run | Queued | Run limit
rrc_main | Route | 0 | 0 | --
short | Execution | 1 | 0 | 16
long | Execution | 4 | 0 | 32
medium | Execution | 1 | 0 | 16
xxl | Execution | 5 | 0 | 16
Total | | 11 | 0 | --
Detailed statistics on
Tue Sep 16 19:04:44 2003
Get statistics
Integrated statistics per user from 15 Apr 2002 to 16 Sep 2003
Get statistics
Страница загружена.



Status of PBS batch jobs on rrcsrv.itep.ru (Thu Sep 18 14:54:08 2003)

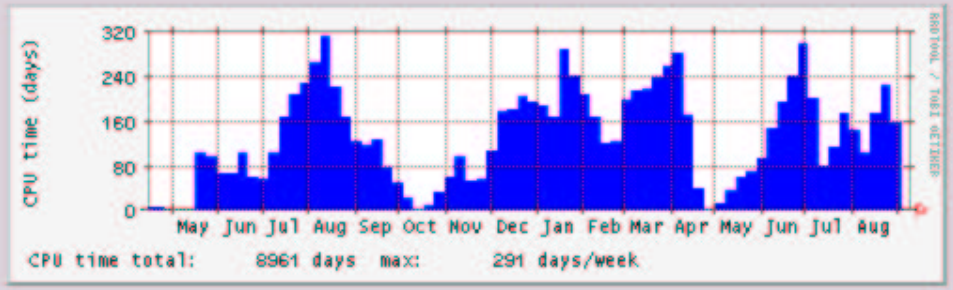
Job ID	Job Name	username	Job Owner	Group	Node	Time Use	Status	Queue
3462	50-strip.bat	matveev	Vladimir Matveev	SELEX	rrc000	284:04:18	R	xxl
3559	3183.bat	matveev	Vladimir Matveev	SELEX	rrc002	93:20:35	R	xxl
3560	15-strip.bat	matveev	Vladimir Matveev	SELEX	rrc015	154:40:55	R	xxl
3563	test.csh	kolosov	Victor Kolosov	CMS	rrc003		R	long
3564	test.csh	kolosov	Victor Kolosov	CMS	rrc001		R	long
3565	test.csh	kolosov	Victor Kolosov	CMS	rrc014		R	long
3566	test.csh	kolosov	Victor Kolosov	CMS	rrc013	00:01:36	R	long
3567	test.csh	kolosov	Victor Kolosov	CMS	rrc012		R	short
3568	test.csh	kolosov	Victor Kolosov	CMS	rrc011		R	medium
3569	test.csh	kolosov	Victor Kolosov	CMS	rrc010		R	xxl
3570	test.csh	kolosov	Victor Kolosov	CMS	rrc009		R	xxl

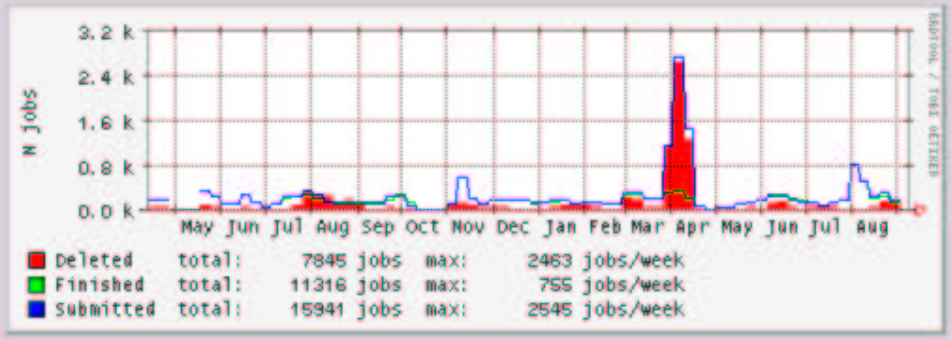
PBS statistics - Konqueror

Адрес Правка Вид Перейти Закладки Сервис Настройка Окно Помощь

Адрес: http://localhost/~kolosov/monitor/pbsview.cgi

Statistics of the PBS from *Apr 15 2002* to *Sep 18 2003* for rrcsrv.itep.ru





Date	CPU Time	Submitted	Finished	Deleted
2002-04-18	17 days 14:38:41	514	514	52
2002-04-26	00:00	5	5	0
2002-04-30	18:19:11	3	3	0

Страница загружена.

Conclusions:

- It works! Monitoring system shown good stability during two years of operation in ITEP.
- Scalability is enough to monitor up to 100K jobs per day.

Roadmap

- Some of the developed mechanisms will be used in high performance monitoring system based on SQL DB to replace MRTG or RRD tools.
- PBS Log parser and DB writer will be separated in the future release to provide the common interface for writing events.