

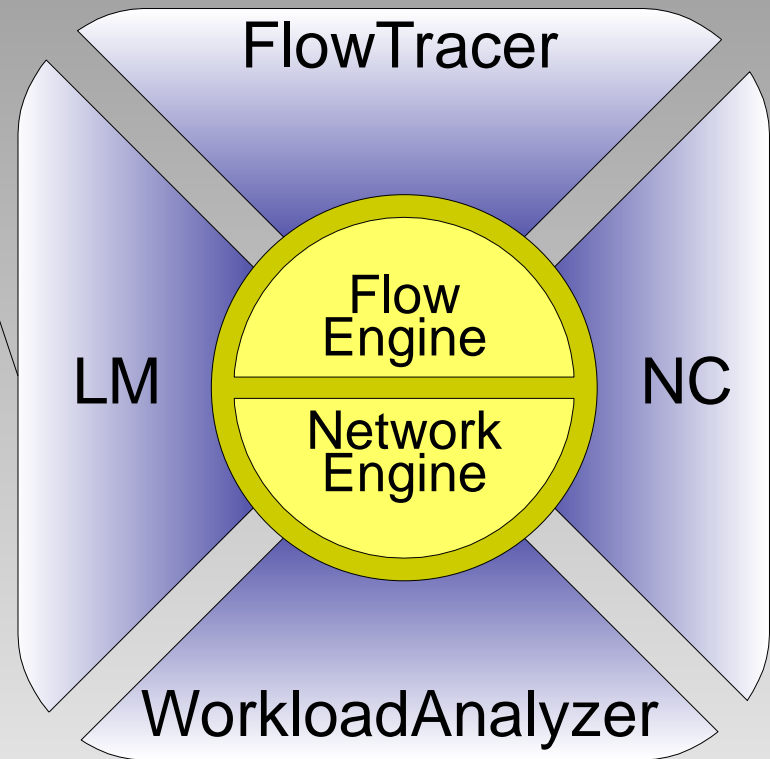
RTDA

LicenseMonitor

August 13, 2008

- Founded in 1995
- Headquarters in Santa Clara, CA
- Global sales and support network
- Self-funded, privately held, and profitable
- A growing patent portfolio

- LicenseMonitor
 - Metrics gathering and reporting
 - License server management
- NetworkComputer
 - Fast, event-driven job scheduler
- FlowTracer
 - Replacement for Makefiles
 - Automatic dependencies with visualization
- WorkloadAnalyzer
 - What-if simulation for enterprise workloads



- Do I have the right mixture of licenses?
- Which licenses are bottlenecks?
- Which licenses are under-utilized?
- When are the congestion times?
- How can I get the data to make wise business decisions?



Key Features of LicenseMonitor



- Open and extendable monitoring system
 - Multiple license managers: FLEXlm, Reprise, LUM, Silvaco
- Server/client architecture
- Built-in browser interface
- Alert system with customizable e-mail notification
- Additional monitoring
 - Hosts, file systems, processes
- License management features
 - Control license servers
 - Perform CM, fetch, and publish license and options files
- Cross-platform, multi-platform

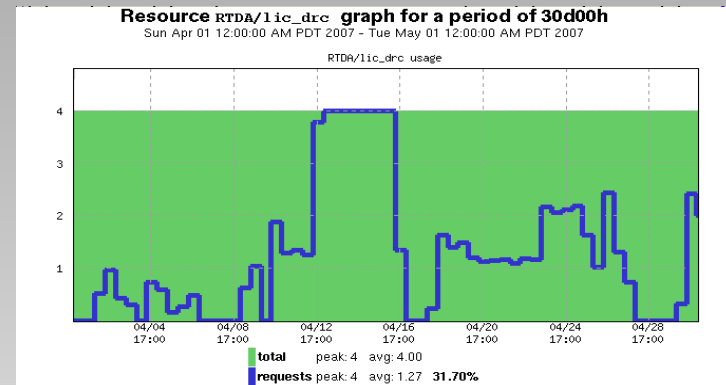
Key Features of LicenseMonitor (cont)



- Open database, SQL-driven
- Rich reporting including graphs, heat-maps, and text reports

Resources Statistics For 30d00h
Tue Jun 01 12:00:00 AM PDT 2004 - Wed Jun 30 11:59:59 PM PDT 2004

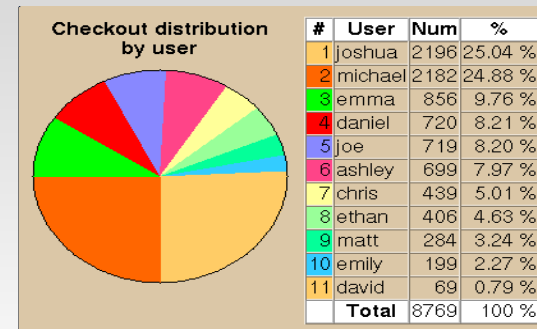
#	Resource	Total		Used		
		Avg	Max	Avg	Max	%
1	PrimeTime	6.97	10	6.91	10	99.14
2	hsim-char	5.85	15	5.75	15	98.40
3	Analog_Design_Env_XL	6.67	15	5.74	15	86.11
4	calibredrc	8.00	8	5.08	8	63.50
5	NC-Verilog	50.00	50	28.20	50	56.40
6	hsim	2.00	2	0.51	2	25.59
7	vcs	30.00	30	7.64	30	25.45
8	hspice	17.66	38	1.63	38	9.21
9	Virtuoso_Layout_Suite_L	15.65	21	0.99	8	6.32
10	Encounter_Timing_XL	1.00	1	0.05	1	4.81
11	Affirma_NC_Simulator	50.00	50	1.78	9	3.56
12	SignalScan	50.00	50	1.57	3	3.14
13	Conformal_Ultra	50.00	50	1.44	20	2.89



Activity heatmap - checkouts

Day\Hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun		1							2	4	5	6	13	10	11	16	5	10	8	5	4	6	16	21
Mon	3	4	4	1	4	1	13	33	106	90	86	60	61	52	54	56	51	46	23	20	6	11	9	5
Tue	1	2	7	11	7	5	17	52	107	91	72	50	43	58	78	64	70	40	23	14	23	19	6	15
Wed	6	2	10	10	7	2	11	45	81	106	77	64	58	61	58	88	83	56	16	10	18	16	18	59
Thu	12	4	6	7	13	5	13	64	138	121	106	70	53	57	32	39	33	13	11	14	4	6	5	1
Fri	3		1	3	2	2	4	6	13	24	15	12	7	16	21	10	9	10	9		1		5	1
Sat	8	1	1				1	1	2	5	5	3	1	4	3	2	3	1	2	2		3	3	2

Legend: 0 (blue) to 138 (red)



Differentiating Features *

	FLEXnet Manager	LicenseMonitor
Supports other license managers	No	Yes
Initial setup effort	High	Low
Host process/disk monitoring	No	Yes
Price point	High	Low
Report generation time	High	Low
License model	Users + daemons	Users only
Comes with RTDA support?	No	Yes

* As reported to us by our customers. RTDA focuses less on what our competitors are doing and more on what our customers request.

Common Features

	FLEXnet Manager	LicenseMonitor
License monitoring	Yes	Yes
License reporting	Yes	Yes
Denial reporting	Yes	Yes
Current users	Yes	Yes
Lmremove from browser	Yes	Yes
Graph and text reports	Yes	Yes
Database powered	Yes	Yes
Unlicensed tool wrapping support	Yes (SAMwrap)	Yes (built-in)
Cross-platform	Yes	Yes
Web-based interface	Yes	Yes (integrated)
Multi-site support	Yes	Yes
License server control features	Yes	Yes
License file publication features	Yes	Yes
LDAP support	Yes	Yes
Problem alert system	Yes	Yes
Fully customized reporting	Yes	Yes

- FLEXIm
 - Sample with Imstat (default every 30s)
 - Parse debug log, if available
 - Denial information, short checkouts, and past history
- For other license managers
 - Command line interface equivalent to Imstat
 - Reprise: rlmstat
 - Silvaco: sflm
 - ...

- License daemon status
- Current data
- Historical data
- Trend-based reporting
- Network monitoring
- Notification and alerts
- License server management