

MRTG

- The Multi Router Traffic Grapher (MRTG) is a tool to monitor the traffic load on network-links. MRTG generates HTML pages containing PNG images which provide a LIVE visual representation of this traffic. Check <http://www.stat.ee.ethz.ch/mrtg/> to see what it does.

MRTG

- **MRTG** is a tool to monitor the traffic load on network-links. MRTG generates HTML pages containing graphs which provide a LIVE visual representation of this traffic.
- MRTG is a standalone tool that collects, stores, and graphs your data.
- It does an ok job, but it has some performance and flexibility issues.

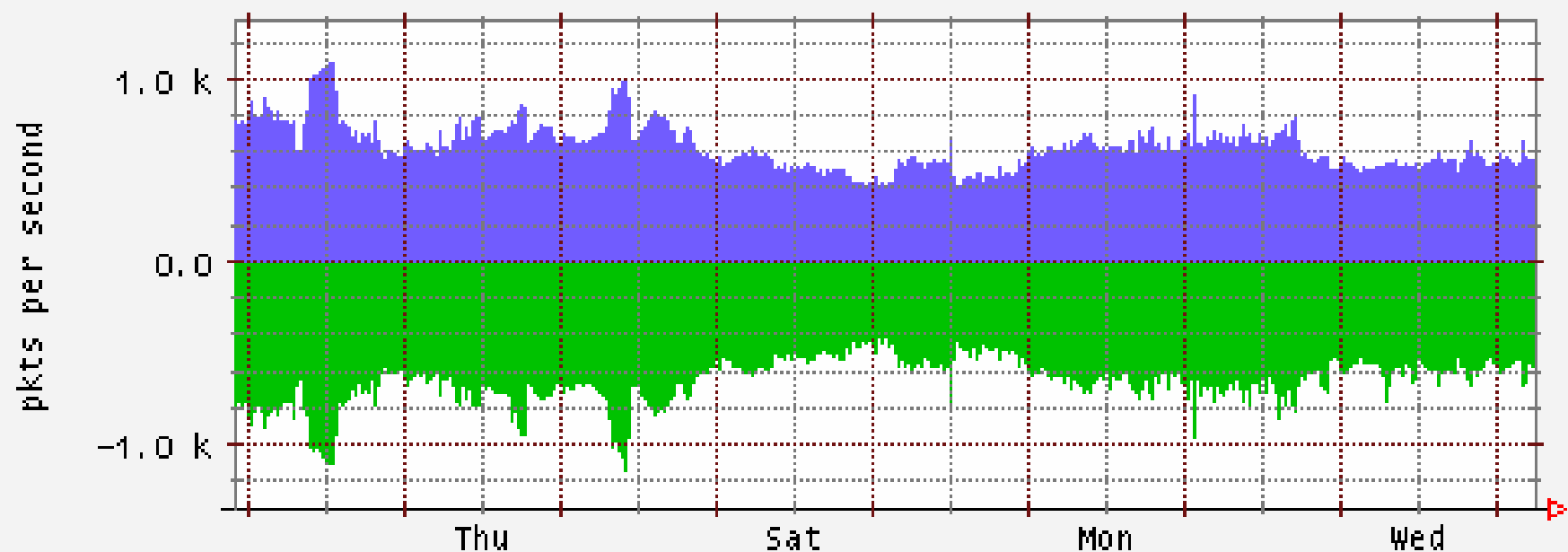
MRTG - Issues

- MRTG generates each graph (we are generating 582 graphs!) every 5 minutes, creating a lot of overhead.
- It also has very few customizable graphing options.
- Disk space is always an issue.

Running MRTG

- Get the required packages
- Compile and install the packages
- Make cfg files for router interfaces with cfmaker
- Run MRTG - `/usr/local/mrtg-2/bin/mrtg /home/mrtg/cfg/mrtg.cfg`
- Trigger MRTG periodically from Cron or run it in daemon mode

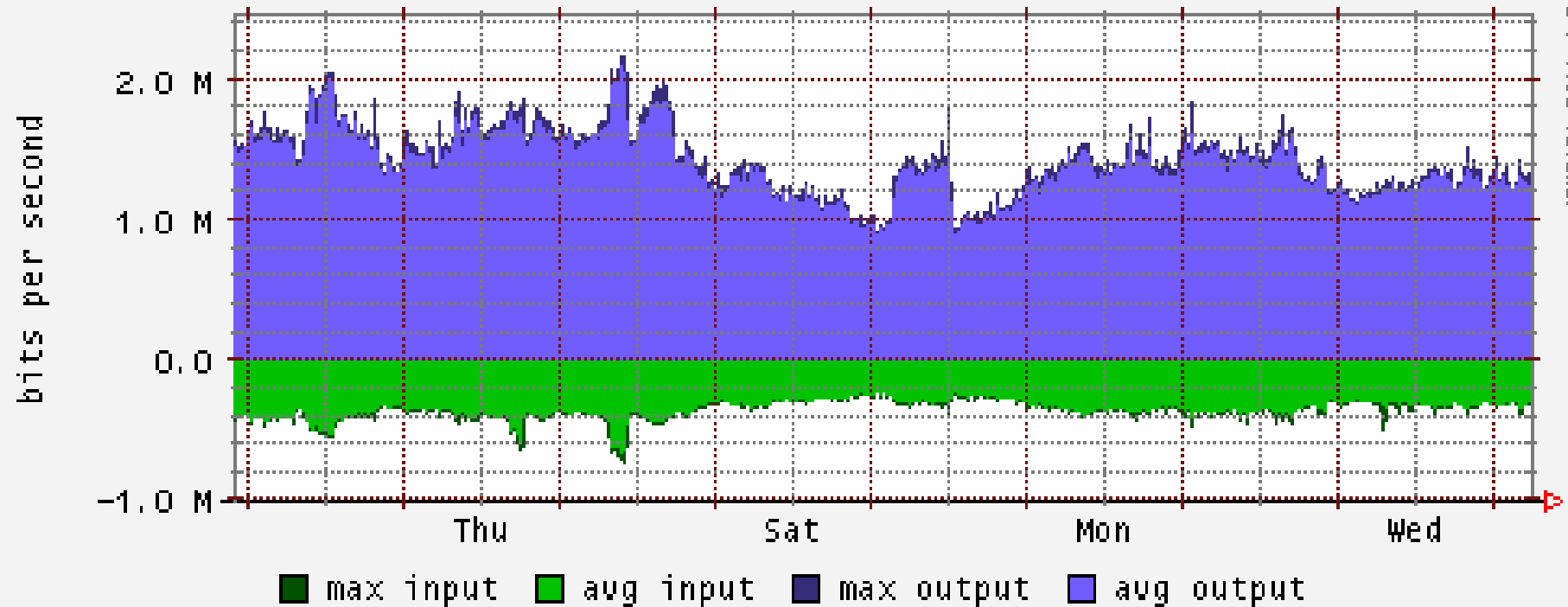
f-paolc traffic (~1 week, pkts)



INPUT uni !uni dis err OUTPUT uni !uni dis err

(In:Out)	---Max (Max)---	---Avg (Max)---	---Max (Avg)---	---Cur (Avg)---
Unicast	1.14k: 1.10k	652.56 : 622.21	1.09k: 1.06k	0.00 : 0.00
!Unicast	0.00 : 0.00	0.00 : 0.00	0.00 : 0.00	0.00 : 0.00
Dis+Err	0.00 : 0.00	0.00 : 0.00	0.00 : 0.00	0.00 : 0.00

f-paolc traffic (~1 week, bits)



IN	Max(Max)=723.01kb	Avg(Max)=365.84kb	Max(Avg)=663.45kb	Cur(Avg)=	0.00 b
OUT	Max(Max)= 2.16Mb	Avg(Max)= 1.43Mb	Max(Avg)= 2.08Mb	Cur(Avg)=	0.00 b

SNMP

- mostly a query - response system
- little network traffic initiated by agent
- currently only a primitive security system
- SNMPv2 was to have real security but working group fragmented, SNMPv3 now ready
- uses database defined in MIB
- can have "enterprise" extensions to MIB
- SMI defines structure of MIB
- SMI defines data structure using ASN.1 (Abstract Syntax Notation)