

MAGGIE:

MEASUREMENT AND ANALYSIS FOR THE GLOBAL GRID AND INTERNET END-TO-END PERFORMANCE

MAGGIE [maggie.niit.edu.pk] is a collaborative research initiative by the Stanford Linear Accelerator Center (SLAC), USA and NUST Institute of Information Technology, Pakistan. The motivation behind the initiative is the need for better and integrated Network Performance Measurement and Monitoring. This includes support for analysis and access to network monitoring data while considering the increasing amount of computing and networking power in the scientific research community. Most of the monitoring tools being developed by team-MAGGIE, derive their data from the PingER [www-iepm.slac.stanford.edu/pinger] project.

- Topological Analysis and Visualization of Network Performance
- Automatic Network Anomaly Quantification
- A software for creating high-level summary plots of PingER data
- Integration of PingER and AMP
- Web based PingER Visualization
- A Ubiquitous PingER Client with support for statistical analysis
- IP Geo Location using Triangulation
- Network Weather Forecasting
- Creation of a web-based infrastructure for PingER management
- Integration of the SmokePing and PingER

NIIT is extremely proud to have extremely energetic, ambitious, creative yet responsible scholars representing her. The scholars involved relentlessly in making MAGGIE a success and Pakistan proud are:

Adnan Iqbal (PhD student), Asma Shamshad (BIT 4), Faran Javed (BIT 5), Fareena Saqib (BIT 4), Mirza Abdullah Jan (SA Dept), M. Asif Khan (BIT 4), Rabail Javed (BIT 5), Sheryar M. Khan (BIT 4), Syed Akbar Mehdi (RA), Waqar Ali (RA)

SCHOLAR OF THE MONTH

Stating that particular scholar(s) associated with MAGGIE are more hardworking than the others would be unfair. I have found every member to highly motivated and trying their level best to contribute towards the objectives of MAGGIE. However as per the peer review, ingenuity in accomplishing the assigned tasks and results obtained the following scholars were voted as the 'scholars of the month' (June 2006).

**SHERYAR M.
KHAN
(BIT 4)**



**M. ASIF
KHAN
(BIT 4)**

Contacts:

Dr. Arshad Ali
Executive Bldg, St # 9
9280658 x 101
drarshad@niit.edu.pk

Umar Kalim
R # 15, AB # 3, St # 8
9280439 x 134
umar.kalim@niit.edu.pk

Visit MAGGIE at
maggie.niit.edu.pk

