

# Pathneck Tasks

Pathneck (see [http://maggie.niit.edu.pk/website/projects/Topological\\_Analysis.html](http://maggie.niit.edu.pk/website/projects/Topological_Analysis.html)) Yee is the lead at the SLAC end: Asif

THIS IS OLD AND DEFUNCT, WE ARE CURRENTLY NOT INVESTIGATING INTO THIS ANYMORE

1. Try and get pathneck working from NIIT, study debug output, work with Ningning <[hnn@cs.cmu.edu](mailto:hnn@cs.cmu.edu)> (awaits site upgrade): Asif
2. Update production version at SLAC (12/106): Asif, Yee
3. Develop and install pathneck reverse server (would like to start at NIIT just to assure code works work with -y option): Les, Asif
  - a. Modularize security of traceroute.pl: Asif, Yee
  - b. **Add in PerfSonar: Asif, Yee**
4. Evaluate and understand how pathneck needs to be configured, the failure modes, the areas of applicability etc. using iepm-resp.slac.stanford.edu: Asif
  - a. **Provide web site documenting failure modes: Asif**
5. Develop a vizualization
  - a. Topology (currently with Touchgraph), color links, mouseover ID router, provide snapshot
  - b. Click on link/router to get graph
  - c. Incorporate location (e.g. via TULIP)
6. Need a schema
7. Investigate integration with traceanal and graphviz: Asif
8. Integrate topology map with pathneck: Asif
9. Look at using PerfSONAR router information (do not agree well, need to get more statistics, to enable multiple measures need API to get PerfSONAR data, look perfsonar UI): Asif
10. Try on Ultralight (problems if < 4 hops): Asif
11. Problem of 0 results (reported to author but not much happening 4/20/06): Asif
12. Add position and AS information to router database: Asif