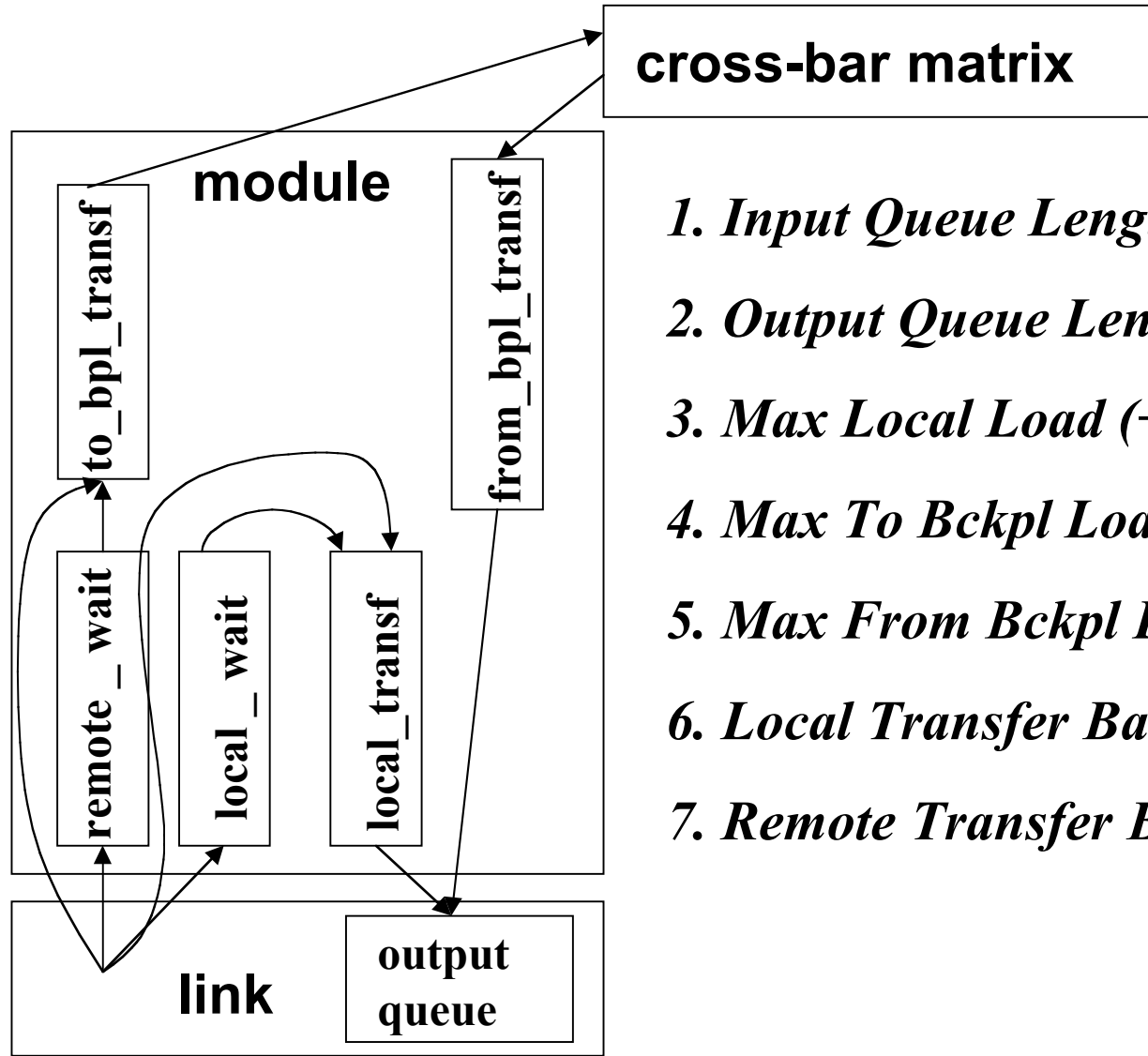


Parameterized Ethernet switch - structure



cross-bar matrix

- 1. Input Queue Length (remote+local wait)*
- 2. Output Queue Length*
- 3. Max Local Load (+ PDF(size))*
- 4. Max To Bckpl Load (+ PDF(size))*
- 5. Max From Bckpl Load (+PDF(size))*
- 6. Local Transfer Bandwidth*
- 7. Remote Transfer Bandwidth*

Parameterized Ethernet switch - structure

- Moved to OPNET 6.0
 - significant simplification/improvement in low level traffic handling (background utilization)
 - simplification in base models of network components (nodes, bridges, links)
- Prepared for translation to other modeling frameworks
 - reduced number of OPNET kernel calls
 - integration with PTOLEMY is being looked at now
- Moved to WNT platform
 - ~20 times faster (?)

Large scale Ethernet networks

- Automatic creation of ATLAS „big_central_switch” network in OPNET 6.0 almost ready
 - # partitions (detectors, processing farms)
 - #ROBs /partition, #processors/partition
 - #average load/ROB, #average load/processor
- Feasibility studies on running OPNET model on WNT farms - positive indication

