# 97-0611

Modifications to the Latency Section of Performance Testing Baseline Text

Gojko Babic, Arjan Durresi, Raj Jain, Justin Dolske,

The Ohio State University

Raj Jain is now at Washington University in Saint Louis Jain@cse.wustl.edu

http://www.cse.wustl.edu/~jain/

The Ohio State University

Raj Jain

1



- □ More precise measurement procedures
- Complete list and description of foreground and background traffic characteristics
- □ Scalable test configurations
- Reporting requirements

## **Latency Measurement**

- Precise procedure description
- Includes mean and standard deviations
- Various intensities of foreground traffic (0+%, 50%, 75%, 87.5%, ...)
- Various intensities of background traffic
  (0%, 50%, 75%, ... of max background load)

3

Raj Jain

## **Foreground Characteristics**

- □ Type of VCCs: PVP, SVP, **PVC**, SVC,
- VCCs between ports on same/different modules/fabrics.

"Same module" may or may not be better.

- □ Service class: UBR, ABR
- Arrival patterns: equally spaced frames, self-similar, random
- □ Frame length: 64 B, **1518 B, 9188 B** or 64 kB, variable;
- □ Full foreground load (FFL)

**Input rate**/FFL =  $0^+$ , 0.5, 0.75, ... 1-2<sup>-k</sup>, k = 1, 2, ... The Ohio State University Raj Jain

## **Background Characteristics**

- □ Type of VCCs: PVP, SVP, **PVC**, SVC,
- □ VCCs between ports on same/**different modules**/fabrics
- Connection configuration: n-to-n straight, n-to-(n-1) full cross,

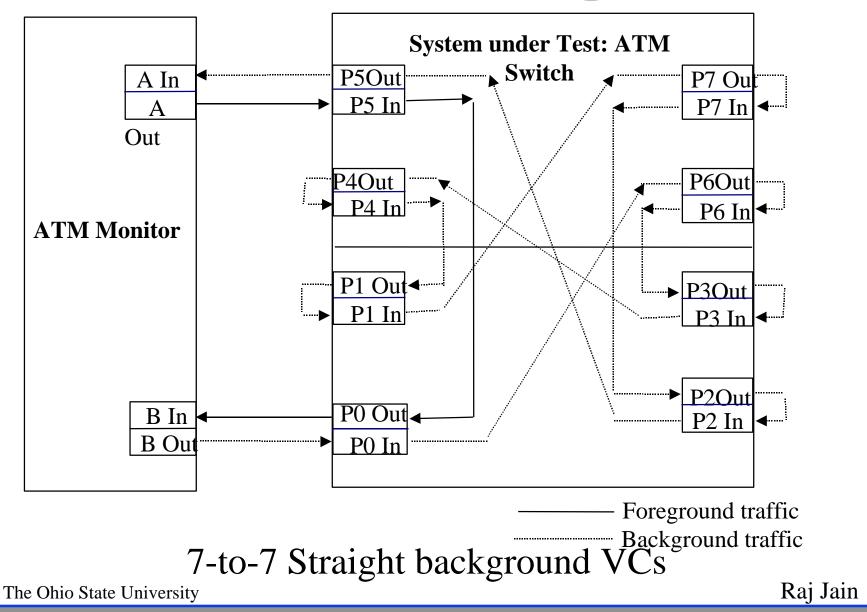
**n-to-m partial cross with m** = 2, 3, 4, ...,n-1

- □ Service class: UBR, ABR, CBR, and VBR
- Arrival patterns: equally spaced frames, self-similar, random
- □ Frame length: 64 B, 1518 B, **9188 B** or 64 kB, variable
- □ Maximum background load (MBL) =  $\Sigma$  Link Rates
- □ Input rate/MBL = **0**, 0.5, 0.75, **0.875**,... 1-2<sup>-k</sup>, k = 0, 1, 2, ...

The Ohio State University

Raj Jain

#### **Scaleable Test Configuration**





 Adopt the text of 97-0611 to replace section 3.2 of Performance Testing Baseline Text.

Raj Jain