

# ATM Quality of Service and IP-over-ATM

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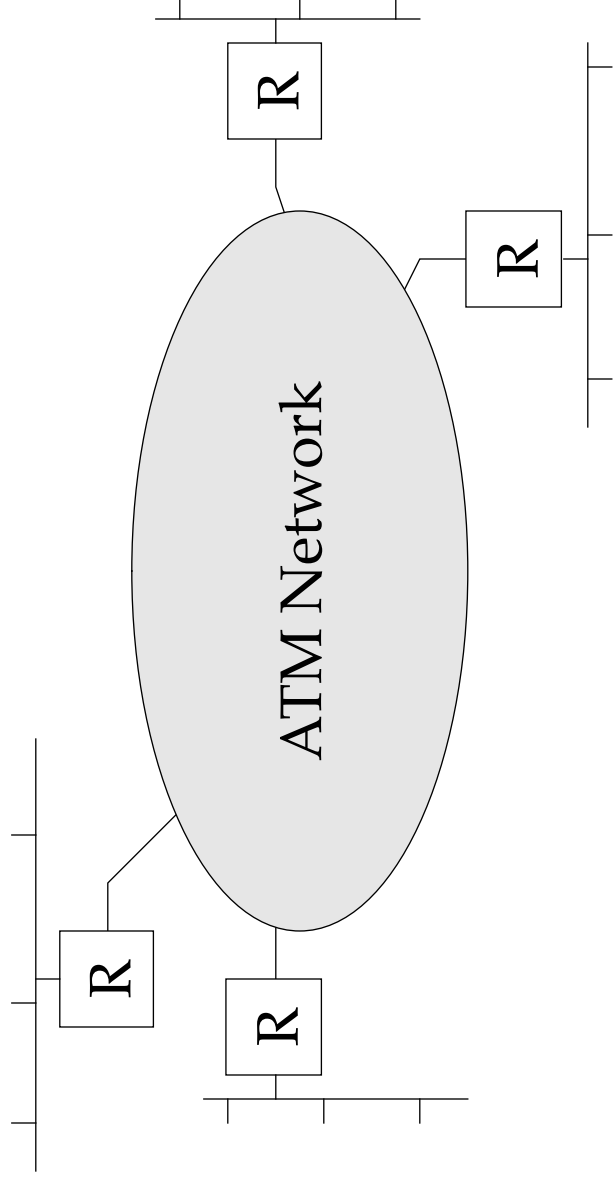
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# Environment



## Setup

Heterogeneous IP internetwork, QOS-oblivious  
ATM network is a WAN with QOS guarantees, used as IP backbone  
Control over routers (How do they use the ATM network?)

# Issues

## ATM Quality of Service Policies

Best effort vs. static priority vs. RCSP

Static priorities can reduce telnet latency, audio/video losses

RCSP traffic policing good for constricting bulk transfers

## Multiplexing Policies

Virtual circuit per router-pair vs. per-conversation vs. per-application

Per-application can eliminate VC setups if locality of conversations

## Virtual Circuit Usage

Switched vs. permanent virtual circuits

Caching of unused connections?

Caching idle virtual circuits can eliminate 90–95% of VC setups

# Software and Pointers

## Documents

Technical Report

Thesis (Real Soon Now)

## Software

Internet Simulated ATM Networking Environment (INSANE)

Empirically-derived model of HTTP network traffic

## More information

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