XVII Client side

Accesso con proxy cache Add of a proxy

Parameters:

Phit: fraction of reqs can served front the proxy HitCPUtime: CPU time needed to process reg hit MissCPUtime: "", steps:

- process req ask req to WS
- Store doc
- Replace doc
- Send doc to client

Disk-time: disk time at the cache proxy server

$$D_{XX}^p = (1-Phit) D_{XX}$$

Accesso ad un server senza proxy Classic connection client-server

Input parameters: LANbandwidth **MaxPDU FrameOvhd Router latency** LinkBandwidth InternetDelayRTT InternetDataRate **BrowserRate** #Clients PercentActive AvgSizeHTTPRequest DocumentRequested: - R: number of cat. - DocumentSize r

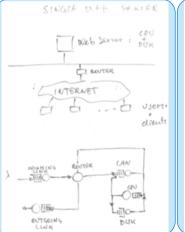
PercentSize r DocumentSize: sum of docrsizes

<u>Calcolo delle Service Demand</u> Service demand at queue 2: LAN - Service demand at queue 3: Router

Service demand at queue 4: Outgoing link
Service demand at queue 5: ISP, Internet, WebSites
Service demand at queue 6: Incoming link

XVIII Server side

Single Web Server



DIFFERENT DOCUMENT SIZE DIFFERENT SERVICE DEHAND MULTI CLASS (r: 1-. R) Lr = Lx Percont Siter INPUT PAROMETERS · Same of previous examples

· Disk Time: Lisk time per KB transfer (mse)

The funcione dei posse a peru

calculate service demands

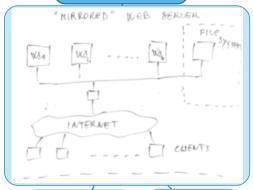


che non si conoscono al momento delle costrusione del modello APPROCCIO ITERATIVO 1) Risolvere il modelle multiclasse "apurto", assumendo CROOM = O & efferere II 2) Ricalcolare il noove valore di Dopur Depor = CPUTOMe Per HTTP Repus to 4 f(A) CPUCUM

3) Rischere di more il mobile usando il more NISOTHER OF MICHO IT MEDICAL MARRIED CH MICHO LABORE ! !!

4) Calcolore la differenza tro i dea valoridi 11, se pui piccolo di un certo valore (z. e. 100) time altriment: in ritorno al passo 2)

Mirrored Web Servers



Without file system With file system

