1. simulation method for designing	Multimedia	Networks	odr V
A simulation method to the introduces a basic phases of the	benign of simulation	f multi-media method uxed	167
multimedia network design.	upd had (pa	(1) bons 19	laund.
measuable terms where in the baseline phase, it authors and the validation of such of the Third phase of the design	nformation C lata love pre process i	morning data hented	Caplute
phare I = d pie pariation of	d of the	10 2	
Proofe in			
phare III - Delta		s. (Mitrollom	
phase I - pre posiciti m	Withwas bel	a Jacks by	brawl
- Goals - Data collection	dud t - xudu	rka	an Hankim
of topology and traffic dutation	thion of g	are line n/w	01 4
1. Identifying Goals * A simulation should have clearly * Those are 2 mincipal goals	genned docki	and the contract of the samples of t	1.11

-> The fruit is to develop a pality of base line in made in official noted Kanjinite quirent contiquation. bottom initiones , of the second is to model the introduction of an asynchronous transfer mode (NTM) backbone infinite louten sibraidlem Modeling Estate graf alice ob routes will story contrarging all in P. Determine simulation goals was a constant of the 3. Describe the N/w in one of two siderbiles and bus word reports of the skepty point it 4. combine each goal 5. define the data to be collected being of the in so rolling 6. Combine there individual documents into a simulation dockbook. phase - Baseline 2. Data collection phax III - balla Example sheet

No type	mode exciption	JD
pula	10 Base - T hab	DH1

Mitoregam - Execti M w place 3 feets anclude

(mitollos den -

voice N/w info; May and traffic information the voicer

to collect the topology and traffic information for the information

postion of the N/w

the are some recommendations at the how the information

might be represented in the model.

video N/w anterior to object and traffic information for the video portion of the MIW. of dishar disa side a miles & et the are dome recommendations as it how it might be represented in the Mimodel noboding of Iduals Amitodia at it We have was constructed phase - I - Baseline model Population and validation BOING COMPOSEN M -> poeliminary steps should be modeling a portion of the notwork that the natural manager understands very well to instance. the simplest case of determining the bading of the video portion of the Net. validating subnets >> ance the subnet is publish, it must be validated. Priticold to the process of validation required running the modelinean d Comparing the nexults, against data collected of topiction treal subset. Integrating and validating Subnets & when the subnet have been validated and illum broads upone & they must be integrated and validated in a stepulse fashion. 3 reallichand mathilage LIKY CITY

Tribute will partie

phase - III - Albertian of Baseline to Acquire Data

> when a baseline with which to Compare is completed and validated,
alterations can be introduced.

> The alterations should be introduced with the same case that

the baseline was constructed.

Determining Remote Bridge and Router Delays

- > The use of Queviney Theory to attermine the dolays auscialed with nemote bridges and nouters
- to In addition, it investigates the effects of modifying the operating nate of the MAN! links in particulars.
- The effect of various communications concert operating notes on requipment alongs interior prition many - spile .

hlaiting Line Analysis of powers

- + Queuing thedy, the formal law to waiting line analysis, can be traced to the work of A.K. Frlang, a panish monthemoticion
- His apioneering wolle Spanned Several obeas of mathematics, including the dimensioning of signing of mathematics, accommodate long-distance all blu telephone company exchanges.

Quening Theory

> Distribution of arriving entities and the time nequired to sorvice shooty it have human it have ? each arrival

1. reguli channel, only phose

-> The most common distribution used to nepresent arrivally in the poisson distribution

$$p(n) = \frac{\lambda^n e^{-\lambda}}{n!}$$

$$p(n) = p_n bability of n arrival)$$

$$\lambda = mean arrival time$$

$$e = 2.71828$$

Baric Components * Eshibit illustrator the System	baric Components standapoleno vitario servico facility	for six the pain of the soulon
Mutichannel single phase	de desimple in white	ting Line System
a. single channel, multiphan waiting line of o	Spirity validation	prihabillar ban pritapile
3. Multichannel, Multiphase waiting line	→ □ ¬ □ -	
J sorvice facility olto	of lynes of wai	ting line systems

of the Input process can be considered the annival objects, of stames of deta 4 The Solvice facility performs some predefined operation on annivals. The they se wife it is to it ibbe it ziting line system ? Mustated it in to Exhibit. is more > The waiting Amally known of a single rehannel, revolver to differ the -> Single - phase weiting line system. I single channel because there is one waiting line. -y one tell boots on a highway of a single-port about gentical Connected to a LAN one two examples of Single -channel. Single - phase waiting line systems . 10 2150 still & bound -> Abone diagrams to illustrate 3 additional types professional ings time sylumber wild the entries pro theoremoses 1. Multichannel, single phase a trustingle channel is rultiphake devices 3. multichannel, multiphase (Autodictate according with in denno 1, la plated of = (1)4 mit being round a &

Base Lining Tooks and Fechniques
There are a variety of network boarding tooks and techniques that can be used to facilite an organization's capacity planning export.
techniques that can believe it is alient to alient to the
capacity planning experts primine surveys ITI wondhimie
sind Nieu) to things to the total polinois in the total
Simple view is an easy to use and nelatively management platform
Simple view is an easy to we amp management platform simple N/w management Protectol (SNMP) management platform
simple N/w management trolletor en 1
from Triticom.
they will be a significant the
statistical information maintained by Remote monitoring N/W Probes
- Simpleview supports a management information base (MIB)
and gold minimum walkpaywin down to
walk capability, shown in the triol walk agroup to select the
-> that letis a blower click on an another group to
group, starting point of double - chick, white of warming
group, starting point of double inchest, on the bograp production of double inchest between productions with the elements.
The state of the s
of cupertino, california, well known to
2. NEWIT: Indirect Alet Manage of cupertino, california, well known to its Chameleon suite of internet applications calso markets a
program called NEhlt w. MAJ hands beloamed
=> That can be used monitor of desktop applications
- 1 min Com 0-

- As well as provide statistics on now activity
 - a verieble of notion back. Kitaw bubivibai
- -> NEWT Monitor on the author's Computer to monitor, the no. of simultaneous FTP servious occurring over or period of time
- -> MENT Monitor enables the use of specific types TCP/IP applications. photology but of pass up is wir signiz tainsparam (9 mus) lostell twasparam with signic

3. Elley Vision '

- with an activity dynamociated with an fand Tion Journa pet britaining mitomoffi Alehvolka
- -> Users com choosemplem a voniety of nletwork monitoring program.
- -> One such mapageam: By Ether Vision, also from the companies
- cittle sound of the Elter Vision support armonitaing by citter aun-Destination address , enabling du every to Thing prikate
- the frame count over Statistics summary presented indicated the monitored period of time.
- Curinent of New while strong in the form of a horizontal bar graph
- on a workstation. 21 allow 1 and wer to munion the bay mogram
 - connected to an Ethernet LAN. on Hollin belles musper
- Ethorvision won can who set the mogram to generate a report

4. Foundation Manager

- of foundation Manager, a product of Network General componentism.
- 4 It is a sophisticated SNKIP Network management system (NMS)
- 4 that operates on Intel-based computers using different versions of Microsofth windows 05.
- > foundation manager was upgraded to support the emerging RMONV2 standard
- of sta tintics -through to it can provide a summony application layer, allowing it to replace the like of multiple product to obtain equivalent information.

Remote Bridgel

The bridge that Connects two geographical separate network. By using telecommunication service such as lease lines or a circuit switched network.

Later which in frequent to the to be described a secretary

A. (1975)、1970年 1970年 1970年

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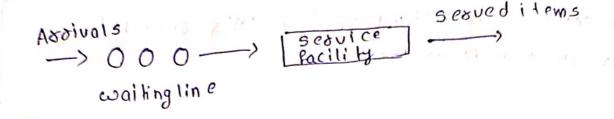
waiting line analysist

Queing theory enomines every component of waiting in line including including arival process service process no. of servers & no. of systems, no. of customer

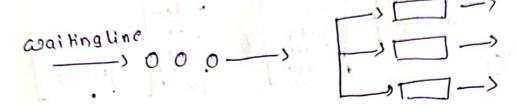
Basic componentsh the mid plante of the

The input process can be considered the assivat of Prames of data the service lacility performes some predefine operation on operation as tem LAN data frame in

SDLC (Syncononus nada Unk control)



1) multi channel, single phase.



2) single channel, multiphase.

3) multichannel multiphase.

* Queving theory

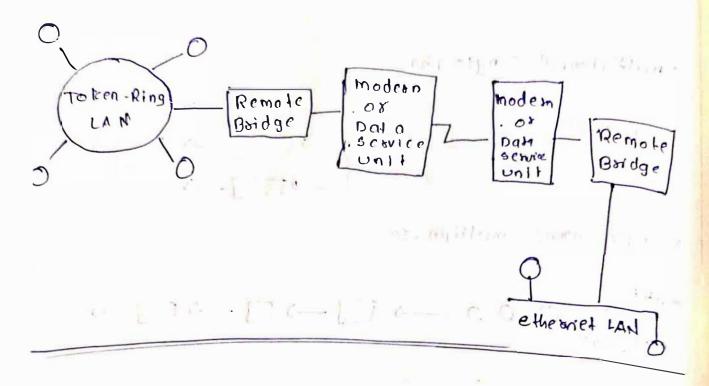
Poission distaibution. P(n) = poobability of n addivats

the distribution of additing entities and time beguited to service each addition is done by poisson distribution

coants + open .

1 (110.

: Internet consisting of two LAN's connected through demote bridges.



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