order of processing each job through madrine to given order of processing each job through madrine to given

The time that each job require on each machine is thrown. The problem is to find a sequence among Consum the total elapsed time [time required for complation of all the job) for all the job will be minimum.

2. Explain processing of nights through two machine algorithms.

By suppose there are n jobs through each of which are to be processed through two machines as & B in the order AB.

Tach job has to pass through the earne sequence of operations in the same order.

to machine B. Processed on machine A, it is assigned to machine B.

ido has to wait in a waiting like for its turn as machine B.

Gince possing is not allowed therefore machine a will remain busy in precessing all in jobs one by second machines. This can be achieved only by determining sequence of m jobs, which are to be processed on two sequence me B. The pracedure sufferted by Thomson for determining the optimal sequence on be

Summarized as follows Extain browseind of wiggs - Almand p three warpine aldorighm ell it is an ordenstan of u lope of apaveau broceque to the case in which there are three machines, instead a two machines. Each job is to be proceeded through three machines AIB and c in the order ABC The list of jobs with their processing times Rocesing sapuampes. years ou machine -11 100 +22 do +23 00 -+31 +485 +488 -An optimal solution to the above problem can be appropried if either or path of following condition holds The minimum proceeding time on machine A is atten et as great as the man processing time on machine 8 that is win +1) 5 mod +5% you 7=1151.... 2. The minimum processing time on machine c is atteast assigning pracessing time on machine B) that is min +315 max +3131=1,21-1.21. If either or both the above conditions hold good, then the buppen of becaseing of whope through 3 machines can be converted in to a 2 machine problem By introducing dommy machines say fond H 3 G= A+B and H=B+c and apply Thonson technique to

get the optimal seopence. When defined edinar ednare do to the auditory baceseing times of whom through 3 warpines to get awine the total clapsed time and which to explained below Aproady on accombe 4 suppose we have the jobs, each of which has to be Processed on two machines the Bin the order AB processi. - ing times are given in the following table. det machine (A) machine (B) betermine an order in which these jobs should be Proceed as as to minimize the total processing time. 99C machine (B) machine(A) 8 6 90P machine (A) machine (B) 2

20p wachine(b) wachine(b)
3 10 11 8
2 4 1 1 1 1 1 1
Job machineces) machineces)
5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
27/4/ 50/1
1306 machineca) machinecal
13 10 8
2 4 3 5 1
Tob machine(A) machine(B) Idle time Threin Time at threin time out A B O 0+2=2 22 2+7=9 0 2 2+4=6 9 9+9=18 0 0 5 6 6+10=16 18 18+18=26 0 0 1 27 17 +6=33 33 33+3=36 0 Idle time for machine(A) ztotal elapsed time time when the last job is out machine (A) Three when the last job is out machine (A) Three when the last job is out machine (A) Three when the last job is out machine (A)
Idle time for machine (B) = 2+(04-04(18-13)+
(51-56)+(13-35)+(36-36)
= 2+0+0+1+1+0=4
" machine (B) = 4 kg
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