GUROBI SOLVING OF @

- · Attempt 1: operation i [[2,2,3] [0,1,2] of Job. J [[2,2...] [0,1,... N.1] OR (J) - Binery rouable, 1 if nation 3 A(31) BEGINS Jum (Juox (C(3'2))) (C(1,3) -P(1,3) ≥0 (r,s) - (r,s) - (c,s) cach sole Ordering of @ ((2,72)-P(2,72) - C(2,72)+P(2,72)+H-PREC pitati. () C(3,51)-P(3,51)-C(3,52)+H-PREC(51,52) V23.72 10.03 **8** C(2,53)-P(2,53)-C(2,52)-P(**3**/ Moore 3 C(3,72) -P(3,71) - (1,72) +M-OR (52) +M-PREC(31,72) >0 V33,32 32.432 The organize of Au and A (543)
- Attempt 2:

 C(i,3) → Complition of equation if[2,2,3] of 500 5 e[3...n]

 CR(3) → Binest variable=4 if 500 5 answers in the OR.

 PREC(i,3,2,12,3) → Binest matrix (4 dimension, 3×10° elements), 4 if equation (i,5,70) precedes (i,5,74)

 O.F. Min (new (C(2,3))) ~ min (F) (F → Int, support variable to express man (3,3))

CONSTRAINTS: Intralization of first A^2 No time atween onactions $\bigcirc (2,3) - P(2,3) - C(2,3) = \emptyset$ A2 of each sole (2,3) - P(3,3) - C(2,3) = Ø ٨2 431,32 | 31,132 | SURG AND SURG (1) C(2,31)-p(2,31)-C(2,32) +M PREC(2,34,2,32) > 0 42172/21+22 BORG AND AND No OVERLAPPING (1-0R(12) >0 Y21,72 | 72 + 72] AN AND SURD (C(3,31) - P(3,32) - ((2,31) + M.PREC(3,71,2,32)+M.(1-OR(31))>0 (1,74) - P(4,74) - C(1,72) +M-PREC (1,74,1,32) 80 VILIELTE] A AND A A2125 | 25 425] A AND AW (1,71)-P(1,71)- (3,72) +M-PREC(1,71,3,72)+M-OR(73) 0 A ONA WA [STEATH STREET (3,71)-P(3,71)-C(4,72)+M-PREC(3,71,1,72)+M-OR(31)) + M. (OB(23)+OB(23)) A23'25 |21 +25] An UND YA (1) P(3,74) - C(3,74) + M.PREC(3,74,3,32) **A**2] F= mox (c(3,3)) (1,72,1,72) + PREC(1,72,1,72) -1 = 0 V31, 32 (32 + 22) A AND A VIL 72 | JI # 52] S AND S @PREC(2,31,2,32)+ PREC(2,32,2,32)-1=8 Y21,32 | 52, 432] AW AND AW (3) PSEC (3, 25, 3, 25) + PSEC (3, 25, 3, 25) -1 = 8 (1) PREC(2, 71, 3, 72) + PREC(3, 72, 2, 72) -1 = 8 Y32,32 | 31. \$ Z AND AW YTYJELTELTE AND AW (1, 71, 3, 72) + PREC (3, 72, 1, 73) -1 = 8