Unidade Central?

Clientes \ Tempos	O0	O1	O2	O3	O4	O5
C0	[illegible]	[illegible]	1	[illegible]	3	4
C1	1	[illegible]	4	5	0	2
C2	2	3	5	0	1	4
C3	1	0	2	5	4	3
C4	2	1	4	5	0	3
C5	1	3	5	0	4	2

Clientes \ Tempos	T0	T1	T2	T3	T4	T5
C0	1	3	6	7	3	[illegible]
C1	3	3	10	10	10	4
C2	5	4	[illegible]	1	1	7
C3	5	5	5	3	3	9
C4	9	3	5	4	3	1
C5	7	3	9	10	4	1
X						

$$\min \sum_{i=1}^{5} C_{i(m)} = C_{0?} + C_{13} + C_{24} + C_{35} + C_{4?} + C_{52}$$

$$\begin{cases} C_{i,1}(1) \geq P_{i,1}(1), & i = 0, \dots, 5 \\ C_{i,k}(k+1) \geq C_{i,k} + P_{i,(k+1)}, & i = 0, \dots, 5,\ k = 0, \dots, 4 \\ C_{i,k} \geq C_{j,k} + P_{ik} - M(1 - X_{ijk}), & i = j = k = 0, \dots, 5 \\ C_{j,k} \geq C_{i,k} + P_{jk} - M X_{ijk}, & i = j = k = 0, \dots, 5 \\ C \in R^{m \times n},\ X \in B^{m \times m \times n} \end{cases}$$

Tempo total mínimo: 58 minutos

S T Q Q S S D

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Unidade Compacta

Cliente/Tempo	Q0	Q1	Q2	Q3	Q4
C0	1	0	4	3	2
C1	0	3	4	2	1
C2	3	4	1	2	0
C3	1	0	4	2	3
C4	0	3	1	1	4
C5	1	2	4	0	3
C6	3	4	1	2	0
C7	2	0	1	3	4
C8	3	1	4	0	2
C9	4	3	2	1	0

Cliente/Tempo	T0	T1	T2	T3	T4
C0	27	53	95	55	34
C1	27	52	76	26	71
C2	39	98	42	31	71
C3	77	55	79	61	77
C4	83	34	69	19	37
C5	54	43	79	92	80
C6	69	77	87	87	93
C7	38	60	41	24	83
C8	77	49	25	44	91
C9	77	79	41	75	96

$$\sum_{i=1}^{n} C_i(m) = C_{02} + C_{17} + C_{20} + C_{39} + C_{44} + C_{53} + C_{60} + C_{74} + C_{82} + C_{90}$$

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$$
\begin{cases}
C_{i,k}(1) \geq P_{i,k}(1) & k = 0 \ldots \\
C_{i,k}(k+1) \geq C_{i,k}(k) + P_{i,k}(k+1) & k = 0 \ldots, \; k = 0 \ldots \\
C_{j,k} \geq C_{i,k} + P_{j,k} - M(1 - X_{i,j,k}) & i \neq j, \; k = 0 \ldots \\
C_{i,k} \geq C_{j,k} + P_{i,k} - M X_{i,j,k} & i \neq j, \; k = 0 \ldots \\
C \in \mathbb{R}^{m \times n}, \; X \in \mathbb{B}^{m \times m \times n}
\end{cases}
$$

Tempo total mínimo: 23 | 7