Sample Computational Multiple Resource Model Computations Simple 4-resource model (A,B,C,D)

Demand Vector for Primary Task

	Α	В	С	D	Mean
Primary Task	1	2	0	3	1.5

Demand Vectors for Competing Secondary Tasks

	Α	В	С	D	Mean
Secondary Task A	2	0	1	2	1.25
Secondary Task B	1	2	1	1	1.25

Exercise

Use the **Demand Vectors** listed above and the **Resource Conflict Model** on the pages that follow to calculate the Total Interference incurred during concurrent performance of (1) the Primary Task and Secondary Task A and (2) the Primary Task and Secondary Task B. Which multitasking scenario yields the greatest amount of dual-task interference according to your results?

	Α	В	С	D	Mean
Task-1					
Tasl-2					

Total Demand = ______(Max. = 6.0)

Resource Conflict Model

	Α	В	С	D
Α	0.8	0.6	0.4	0.2
В		0.8	0.6	0.4
С			0.8	0.3
D				0.8

Max. Conflict = 5.7

Conflict Summation =
Conflict scaling constant = Max. Demand/Max. Conflict = 6.0/5.7 = 1.05
Scaled Conflict = 1.05 * Conflict Summation =
Total Interference = Total Demand + scaled Conflict =

	Α	В	С	D	Mean
Task-1					
Task-2					

Total Demand = _____(Max. = 6.0)

Resource Conflict Model

	Α	В	С	D
Α	0.8	0.6	0.4	0.2
В		0.8	0.6	0.4
С			0.8	0.3
D				0.8

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