

Aircrafts	1	2	3
Preferred Time (T)	2	2	4
Minimum (E)	0	1	2
Maximum (L)	4	3	6
Weight	1	1	1
Time Delay	1,2	2,3	1,3
	2	2	2

Runway	1	2
objective	2	

	Runway	Time
Plane 1	2	1.55E-15
Plane 2	1	2
Plane 3	2	4

	a11	a12	a21	a22	a31	a32	z12	z13	z21	z23	z31	z32	d12	d13	d21	d23	d31	d32	x1	x2	x3	x1-	x1+	x2-	x2+	x3-	x3+			
	0	1	1	0	0	1	0	1	0	0	1	0	0	1	1	0	1	0	0	1.55E-15	2	4	2	0	0	0	0	0		
Constraints																														
Time window bottom 1																				1							1.55E-15	>=	0	
Time window top 1																				1							1.55E-15	<=	4	
Time window bottom 2																					1						2	>=	1	
Time window top 3																					1						2	<=	3	
Time window bottom 3																						1					4	>=	2	
Time window top 3																						1					4	<=	6	
Deviation from preferred time negtive 1																							1				2	<=	2	
Deviation from preferred time positive 1																								1			0	<=	2	
Deviation from preferred time negative 2																									1		0	<=	1	
Deviation from preferred time positive 2																										1	0	<=	1	
Deviation from preferred time negtive 3																											1	0	<=	2
Deviation from preferred time positive 3																											1	0	<=	2
x1- relationship																				-1			-1				-2	<=	-2	
x1+ relationship																				1			-1				-2	<=	2	
x1 relationship																				-1			-1		1		-2	=	-2	
x2- relationship																					-1			-1			-2	<=	-2	
x2+ relationship																					1			-1			2	<=	2	
x2 relationship																					-1			-1		1	-2	=	-2	
x3- relationship																						-1			-1		-4	<=	-4	
x3+ relationship																							1		-1		4	<=	4	
x3 relationship																						-1		-1		1	-4	=	-4	
1 and 2 land before the other													1		1												1	=	1	
1 and 3 land before the other														1				1									1	=	1	
2 and 3 land before the other																	1		1								1	=	1	
Aircraft 1 assigned to one runway	1	1																										1	=	1
Aircraft 2 assigned to one runway				1	1																						1	=	1	
Aircraft 3 assigned to one runway						1	1																				1	=	1	
Symmetry 1 and 2								1		-1																	0	=	0	
Symmery 1 and 3									1			-1															0	=	0	
Symmetry 2 and 3											1		-1														0	=	0	
Airplane 1 and 2, runway 1	1		1					-1																			1	<=	1	
Airplane 1 and 2, runway 2		1			1			-1																			1	<=	1	
Airplane 1 and 3, runway 1	1					1			-1																		-1	<=	1	
Airplane 1 and 3, runway 2		1					1		-1																		1	<=	1	
Airplane 2 and 3, runway 1			1			1					-1																1	<=	1	
Airplane 2 and 3, runway 2				1			1				-1																1	<=	1	
Time delay 1 and 2															-10					1	-1						-2	<=	-2	

Time delay 1 and 3			-10	1	-1	-4 <=	-2
Time delay 2 and 3			-10	1	-1	-2 <=	-2
Time delay 2 and 1	-10			-1	1	-8 <=	-2
Time delay 3 and 1		-10		-1	1	-6 <=	-2
Time delay 3 and 2			-10	-1	1	-8 <=	-2