For scenarios

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Alpha = 0 | Alpha = 0.1 | Alpha = 0.2 | Alpha = 0.3 | Alpha = 0.4 |
| ‘X\_01,02\_01’  ‘X\_02,02\_01’  ‘X\_03,02\_02’  ‘X\_04,01\_01’  ‘X\_05,01\_01’  ‘X\_06,02\_07’  ‘X\_07,01\_01’  ‘X\_08,01\_05’  ‘X\_09,01\_02’  ‘X\_10,01\_06’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Alpha = 0.5 | Alpha = 0.6 | Alpha = 0.7 | Alpha = 0.8 | Alpha = 0.9 | Alpha = 1 |
| ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,02\_01’  ‘X\_05,02\_07’  ‘X\_06,02\_07’  ‘X\_07,02\_02’  ‘X\_08,02\_04’  ‘X\_09,02\_07’  ‘X\_10,02\_02’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,02\_01’  ‘X\_05,02\_07’  ‘X\_06,02\_07’  ‘X\_07,02\_02’  ‘X\_08,02\_04’  ‘X\_09,02\_07’  ‘X\_10,02\_02’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,02\_01’  ‘X\_05,02\_07’  ‘X\_06,02\_07’  ‘X\_07,02\_02’  ‘X\_08,02\_04’  ‘X\_09,02\_07’  ‘X\_10,02\_02’ |

Between 0 and 0.1

|  |  |  |  |
| --- | --- | --- | --- |
| Alpha = 0.01 | Alpha =0.02 | Alpha = 0.03 | Alpha = 0.99 |
| ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,01\_05’  ‘X\_05,02\_07’  ‘X\_06,01\_07’  ‘X\_07,02\_07’  ‘X\_08,02\_02’  ‘X\_09,01\_07’  ‘X\_10,01\_04’ | ‘X\_01,02\_07’  ‘X\_02,02\_07’  ‘X\_03,02\_07’  ‘X\_04,02\_01’  ‘X\_06,02\_07’  ‘X\_07,02\_02’  ‘X\_08,02\_04’  ‘X\_09,02\_07’  ‘X\_10,02\_02’ |

0.91 – 0.94 and 0.98 are OK  
0.95-0.97: X\_8 is missing   
0.99: X\_5 is missing

For original

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Alpha = 0 | Alpha = 0.01 | Alpha = 0.1 | Alpha = 0.2 | Alpha = 0.3 | Alpha = 0.4 |
| 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Alpha = 0.5 | Alpha = 0.6 | Alpha = 0.7 | Alpha = 0.8 | Alpha = 0.9 | Alpha = 0.99 |
| 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' |

Why is it not possible to use 0 and 1?  
It seems that alpha is not considered.

Most probable a problem when generating separate solutions (CHECK THIS). Those solutions should be the same every time you run. If a=0 it takes to long to generate solution. If a=1 it is not possible (do you not consider all dv, or are you turning them off).

WHAT IS DIFFERENT?

The flightsets

Original

|  |  |  |
| --- | --- | --- |
| Opt noise | Opt fuel | Opt fuel (comment noise) |
| 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_03'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_07'  'X\_06,02\_04'  'X\_07,02\_02'  'X\_08,01\_07'  'X\_09,01\_02'  'X\_10,02\_07' | 'X\_01,01\_07'  'X\_02,02\_06'  'X\_03,01\_04'  'X\_04,02\_07'  'X\_05,01\_02'  'X\_06,02\_06'  'X\_07,02\_05'  'X\_08,02\_06'  'X\_09,01\_04'  'X\_10,01\_03' |

|  |  |  |
| --- | --- | --- |
| Opt noise | Opt fuel |  |
| 'X\_01,02\_07'  'X\_02,02\_07'  'X\_03,02\_07'  'X\_04,02\_01'  'X\_05,02\_07'  'X\_06,02\_07'  'X\_07,02\_02'  'X\_08,02\_04'  'X\_09,02\_07'  'X\_10,02\_02' | 'X\_01,02\_01'  'X\_02,02\_01'  'X\_03,02\_02'  'X\_04,01\_01'  'X\_05,01\_01'  'X\_06,02\_07'  'X\_07,01\_01'  'X\_08,01\_05'  'X\_09,01\_02'  'X\_10,01\_06' |  |