

## lut\_file\_2\_to\_1.gce



### Attributes

```
mainvars: x1 x2 y1
sparms: file_name=None
```

### Description

lut\_file\_2\_to\_1.gce implements a 2-to-1 look-up-table which is provided in a file. The output y1 is assigned a value which corresponds to the inputs x1 and x2. Consider the following file as an example.

```
4 3
0.1
0.2
0.3
1.1
1.2
1.3
2.1
2.2
2.3
3.1
3.2
3.3
```

The file is interpreted as follows.

```
4 3  n1,n2
0.1  y(1,1)
0.2  y(1,2)
0.3  y(1,3)
1.1  y(2,1)
1.2  y(2,2)
1.3  y(2,3)
2.1  y(3,1)
2.2  y(3,2)
2.3  y(3,3)
3.1  y(4,1)
3.2  y(4,2)
3.3  y(4,3)
```

In this example, **n1** is specified as 4 and **n2** as 3. **x1** is expected to be 1, 2, 3, or 4, and **x2** to be 1, 2, or 3. If **x1** is specified as 2 and **x2** as 3, the output is **y(2,3)**, i.e., 1.3.

If **x1** < 1 is specified, it is treated as 1; similarly, if **x1** > **n1** is specified, it is treated as **n1**. If **x1** differs from an integer, the nearest integer is used instead of **x1**. Similar comments apply to **x2**.

The string parameter **file\_name** gives the name of the file containing the look-up table. If the absolute path is not specified, the file is expected to be present in the **SEQUEL Output** directory.

AC behaviour is not implemented.