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# **Calvin Network Tools**

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## MATRIX COMMAND

`__matrix_doc_hook()`

CNF Matrix Command

```

{
    format: {
        describe : 'Output Format, dot | png (graphviz_
↪required)',
        choices : ['csv', 'tsv', 'dot', 'png'],
        default  : 'csv',
        alias    : 'f'
    },
    'no-header': {
        describe : 'Suppress CSV/TSV Header',
        type     : 'boolean',
        alias    : 'N'
    },
    ts : {
        describe : '<sep> Time step separator',
        default  : '@',
        alias    : 'S'
    },
    fs : {
        describe : '<sep> Field Separator',
        default  : ',',
        alias    : 'F'
    },
    start : {
        describe : '[YYYY-MM] Specify start date for_
↪TimeSeries data',
        alias    : 's'
    },
    stop : {
        describe : '[YYYY-MM] Specify stop date for_
↪TimeSeries data',
        alias    : 't'
    },
    'max-ub' : {
        describe : 'Replace null upper bounds with a big_
↪number. Like 1000000',
        type     : 'number',
        alias    : 'M'
    },
    debug : {
        describe : 'Set debug nodes. Either "ALL", "*"_
↪or comma seperated list of prmnames (no spaces)', (continues on next page)

```

(continued from previous page)

```
        alias : 'D'
    },
    to : {
        describe : '<filename> Send matrix to filename',
        default : 'STDOUT',
        alias : 'T'
    },
    'dump-nodes' : {
        describe : '<filename> Send list of nodes to_
↪filename, default=no output, can use STDOUT',
        alias : 'O'
    },
    'outbound-penalty' : {
        describe : '<json> Specify a penalty function for_
↪outbound boundary conditions. eg. [[10000,"-10%"],[0,0],[-10000,
↪"10%"]]',
        alias : 'p'
    },
    regions : {
        describe : 'Specify a list of regions to include._
↪ All nodes within the regions will be added to the NODES list. _
↪Comma seperate',
        alias : 'r'
    }
}

};
```

## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`





## Symbols

`__matrix_doc_hook()` (*built-in function*), 1