

## Debug Matrices / M\_debug

```
G =  
[[0.      +0.j 0.      +0.j 1.      +0.j]  
 [0.      +0.j 0.2857+0.j 0.      +0.j]  
 [1.      +0.j 0.      +0.j 0.      +0.j]]
```

```
C =  
[[ 0.5+0.j -0.5+0.j  0. +0.j]  
 [-0.5+0.j  0.5+0.j  0. +0.j]  
 [ 0. +0.j  0. +0.j  0. +0.j]]
```

```
L =  
[[0.+0.j 0.+0.j 0.+0.j]  
 [0.+0.j 0.+0.j 0.+0.j]  
 [0.+0.j 0.+0.j 0.+0.j]]  
RHS = [0.+0.j 0.+0.j 2.+0.j]
```

```
Unknowns:  
['V1', 'V2', 'V1_I']
```

```
M_debug at f=1000.0 Hz:  
[[0.      +3141.5927j 0.      -3141.5927j 1.      +0.j      ]  
 [0.      -3141.5927j 0.2857+3141.5927j 0.      +0.j      ]  
 [1.      +0.j      0.      +0.j      0.      +0.j      ]]
```

## FLOPs & Timing

Frequency(Hz), FLOPs

```
1, 3.6000e+01
10, 3.6000e+01
100, 3.6000e+01
1000, 3.6000e+01
1e+04, 3.6000e+01
1e+05, 3.6000e+01
1e+06, 3.6000e+01
1e+07, 3.6000e+01
1e+08, 3.6000e+01
1e+09, 3.6000e+01
... (omitted many)
```

TOTAL SWEEP FLOPs = 3.6000e+02

TOTAL TIME (sec) = 1.98

## Final Summary

AC Simulation completed  
Frequency Points = 10  
Total Time = 1.98 s  
Total FLOPs = 3.6000e+02