For clarification:

First case

```
1 ------------------------- 2
3 ------------------------- 4
5 ------------------------- 6
7 ------------------------- 8
```

```
[Number of Ports] 8
[Interconnect Port Groups] (1:2) (3:4) (5:6) (7:8)
[Port Names]
1 Near_1
2 Far_1
3 Near_2
4 Far_2
5 Near_3
6 Far_3
7 Near_4
8 Far_4
```

Second case:

```
1 ------------------------- 5
2 ------------------------- 6
3 ------------------------- 7
4 ------------------------- 8
```

```
[Number of Ports] 8
[Interconnect Port Groups] (1:5) (2:6) (3:7) (4:8)
[Port Names]
1 Near_1
2 Near_2
3 Near_3
4 Near_4
5 Far_1
6 Far_2
7 Far_3
8 Far_4
```

A simple extension to handle differential pairs could be:

```
1+ ------------------------- 2+
3- ------------------------- 4-

5+ ------------------------- 6+
7- ------------------------- 8-
```

```
[Number of Ports] 8
[Interconnect Port Groups] ((1,3):(2,4)) ((5,7):(6,8))
[Port Names]
1 Near_1+
2 Far_1+
3 Near_1-
4 Far_1-
5 Near_2+
6 Far_2+
7 Near_2-
8 Far_2-
```

And mixing differential and single ended:

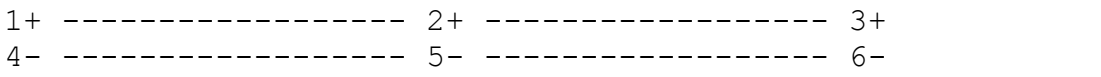
```
1+ ------------------------- 2+
3- ------------------------- 4-

5  ------------------------- 6

7  ------------------------- 8
```

```
[Number of Ports] 8
[Interconnect Port Groups] ((1,3):(2,4)) (5:6) (7:8)
[Port Names]
1 Near_1+
2 Far_1+
3 Near_1-
4 Far_1-
5 Near_2
6 Far_2
7 Near_3
8 Far_3
```

A more complex case of differentials and multi-drop nets:




```
[Number of Ports] 6
[Interconnect Port Groups] ((1,4):(2,5):(3,6))
1 Dimm.1+
2 Sdram1.1+
3 Sdram2.1+
1 Dimm.1-
2 Sdram1.1-
3 Sdram2.1-
```