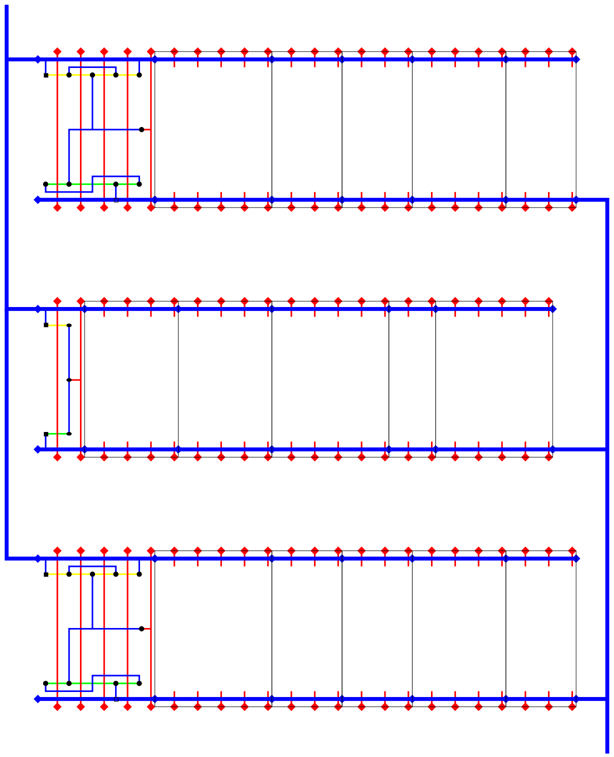
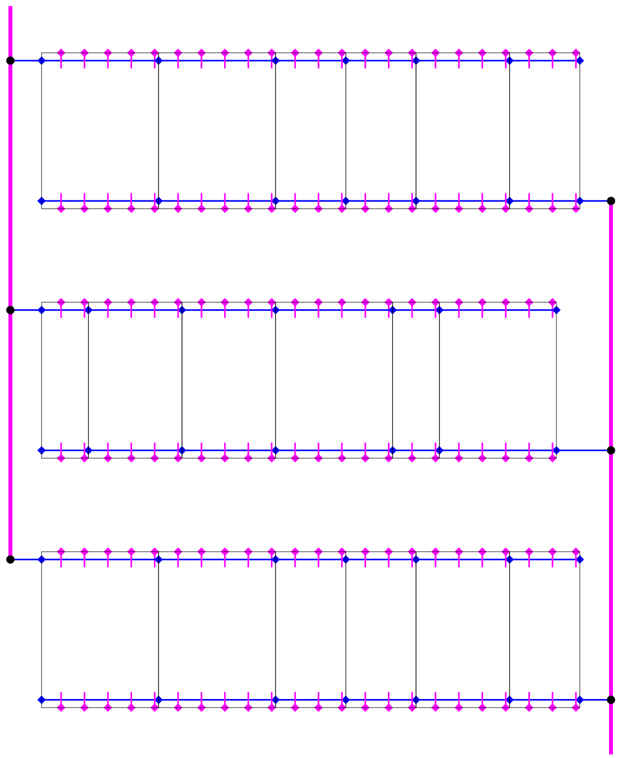
Inter-Digitated Power and Ground



Inter-digitated power and ground rails can be routed using only one metal layer.[1]

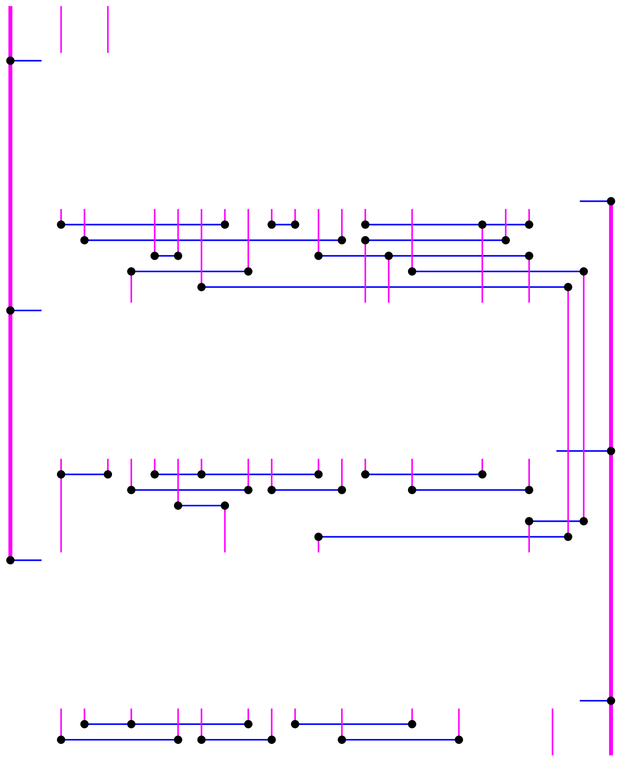
[1] note – poly may not be used in power routing - see latch-up rules

Routing



In the routing channels between the cells we route metal1 horizontally and metal2 vertically.

Routing



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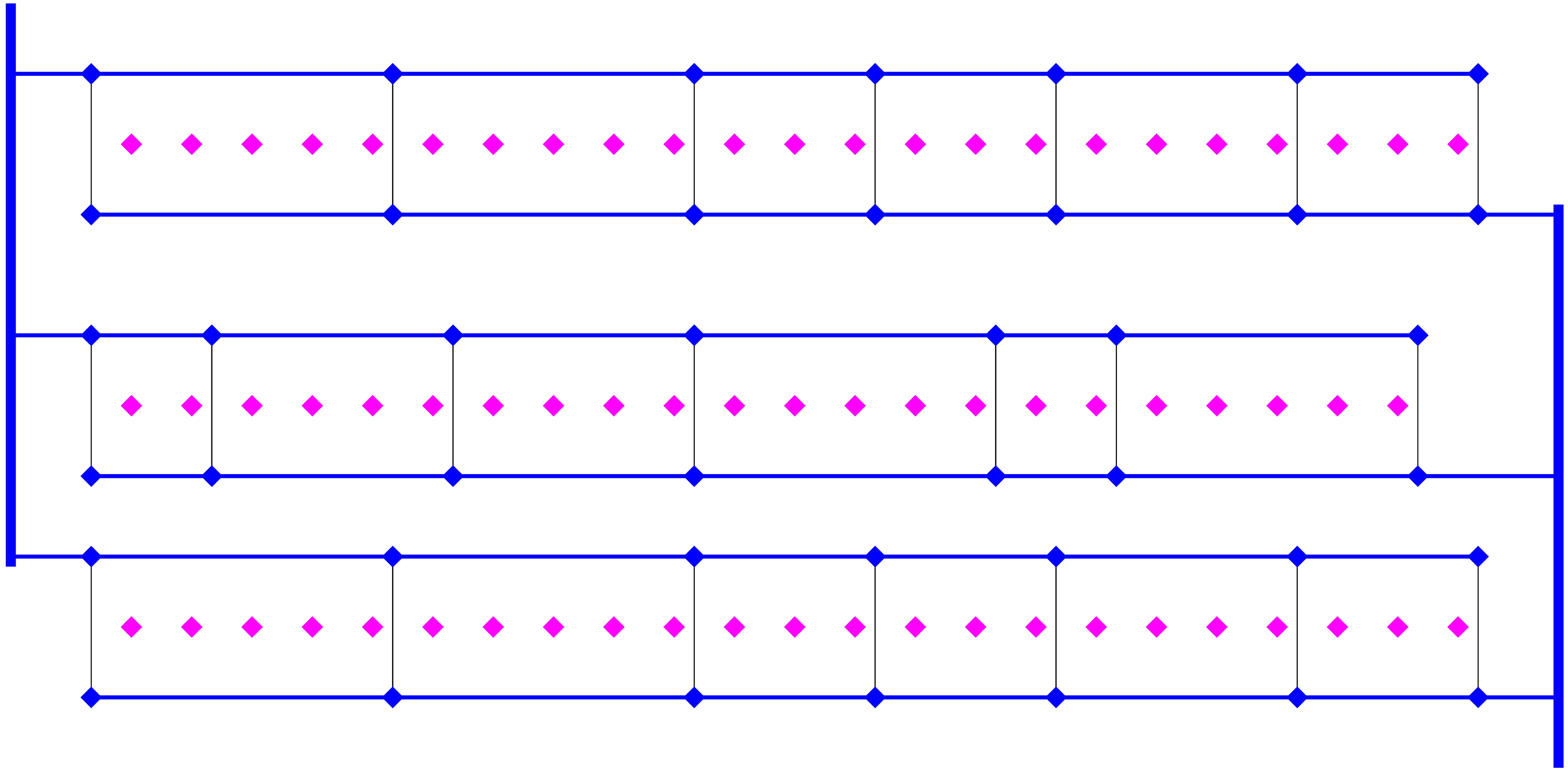
More Metal Layers



With this approach we can route safely over the cell to the specified pins leading to much smaller gaps between cell rows.

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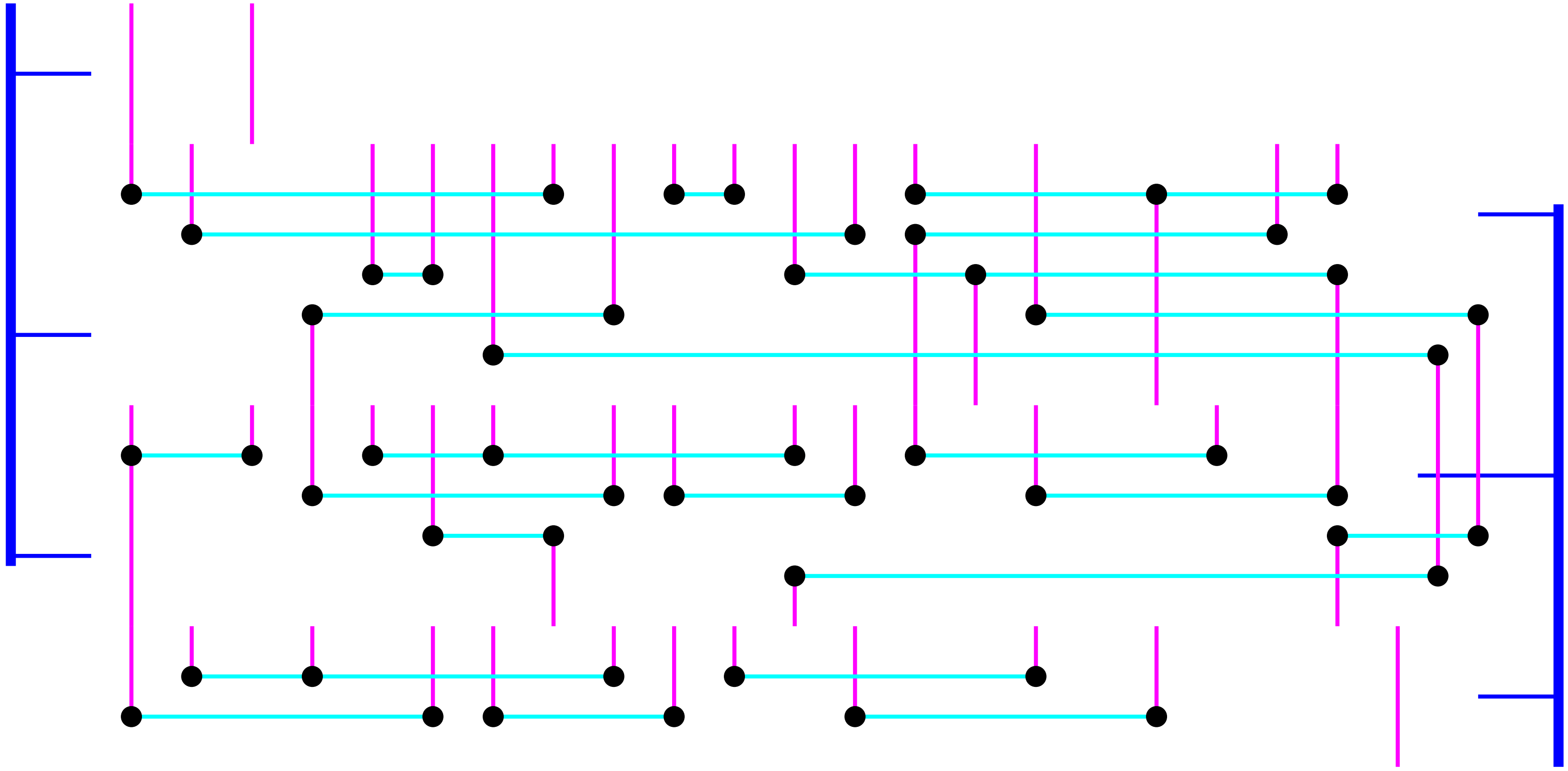

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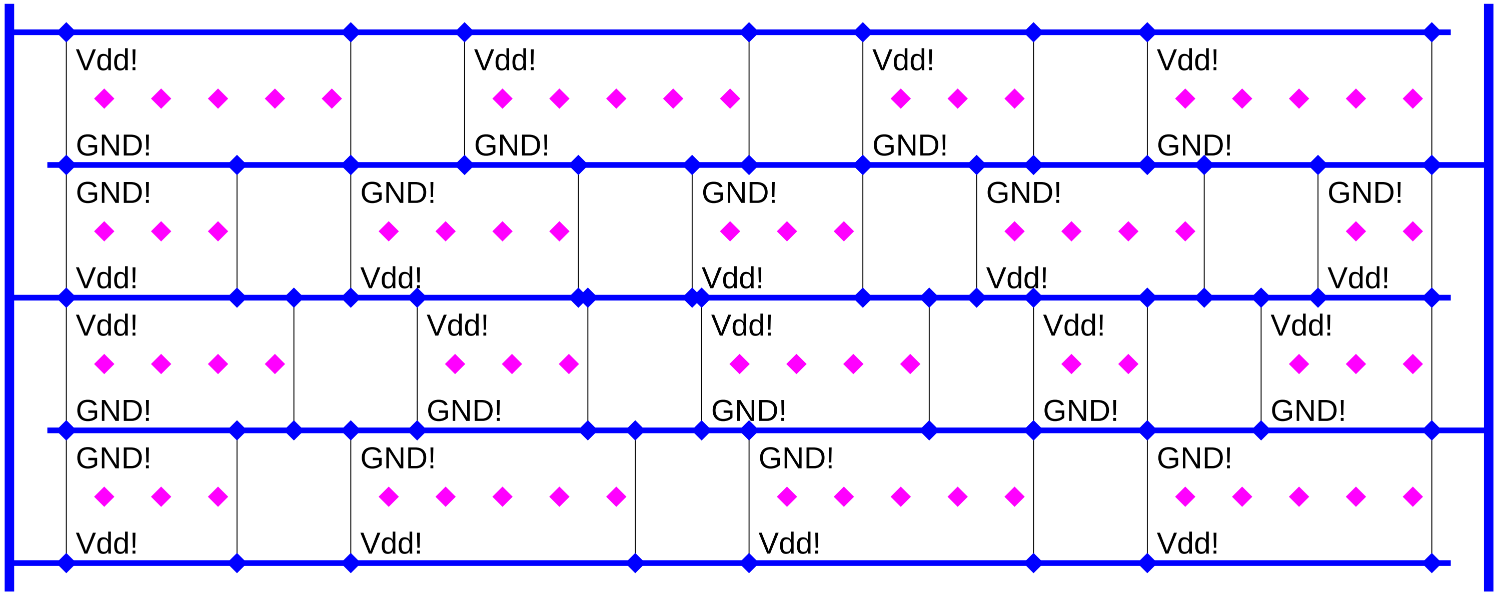
Alternative Placement Style



By flipping every second row it may be possible to eliminate gaps between rows. N-wells are merged and power or ground rails are shared.

This approach is normally associated with sparse rows and non channel based routing algorithms.

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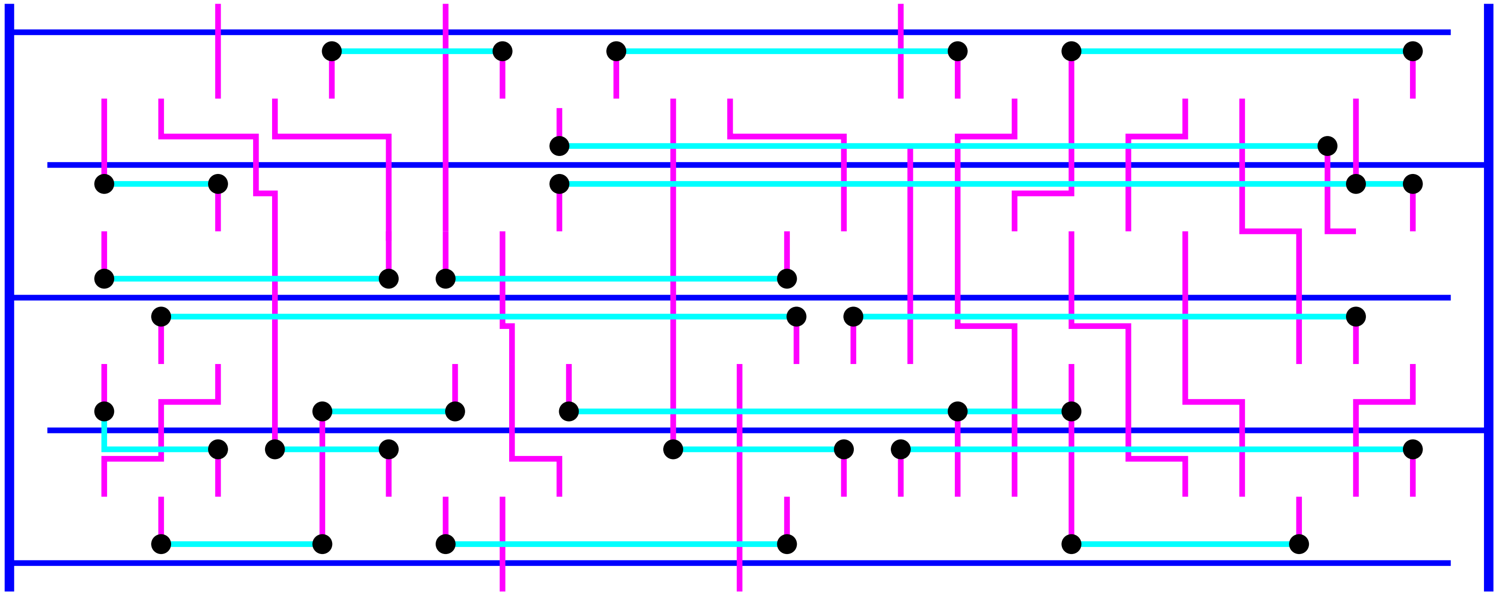

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