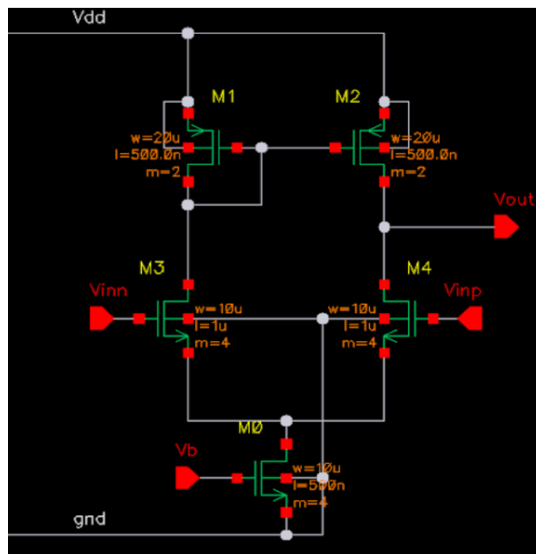
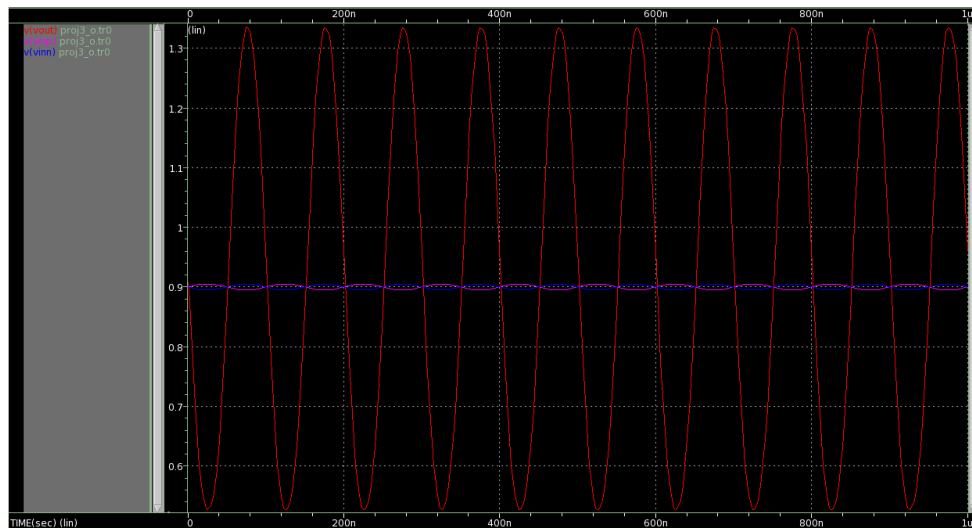


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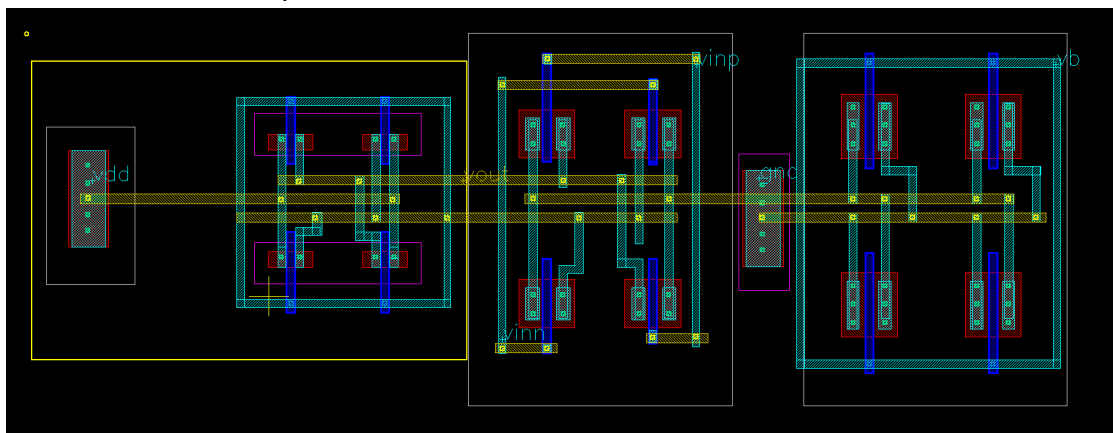
1. Original Schematic



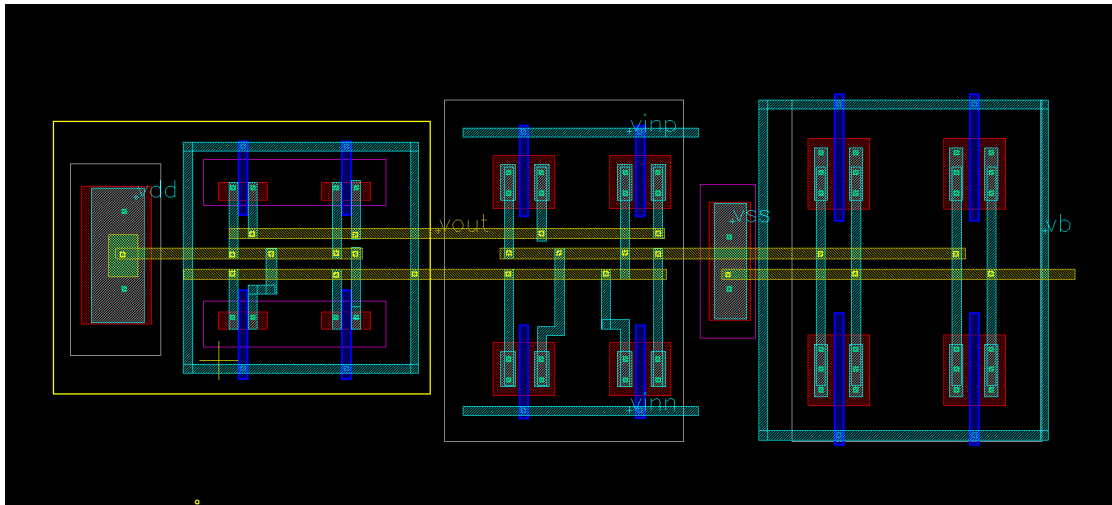
2. Output Waveform from Schematic Layout



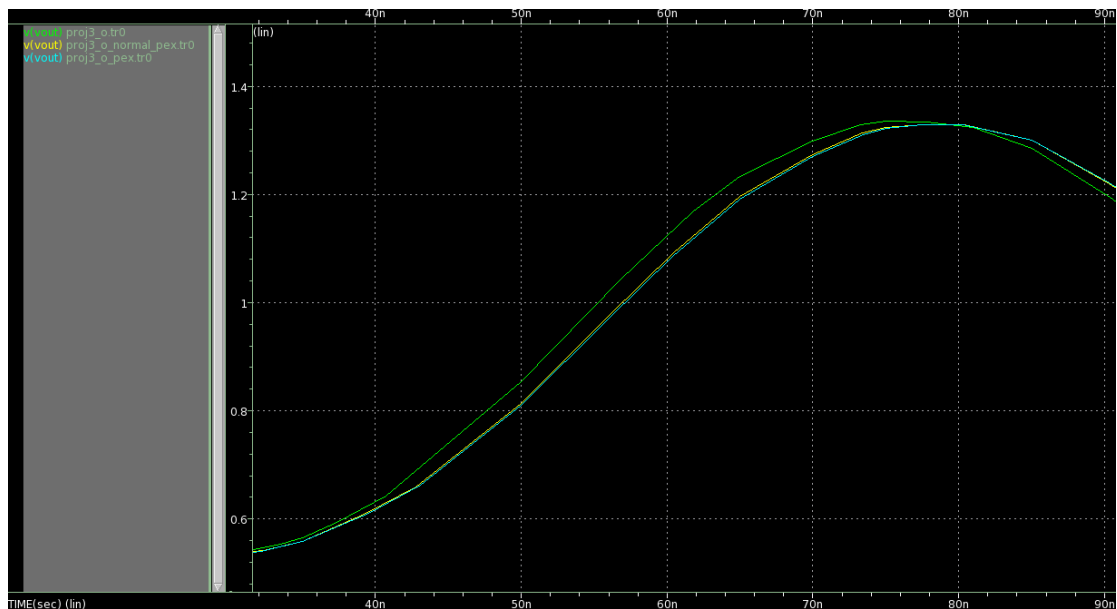
3. Common Centroid Layout



4. Regular Layout (not CCM)



5. Waveform Comparison



6. Conclusion

In the Waveform above, we can see that CCM layout have larger latency than normal layout. In my opinion, this may because of our layout is not very large, therefore, the advantage of CCM is not significant. And due to CCM, we need to draw more metal line in layout, cause larger parasitic resistance and capacitance.