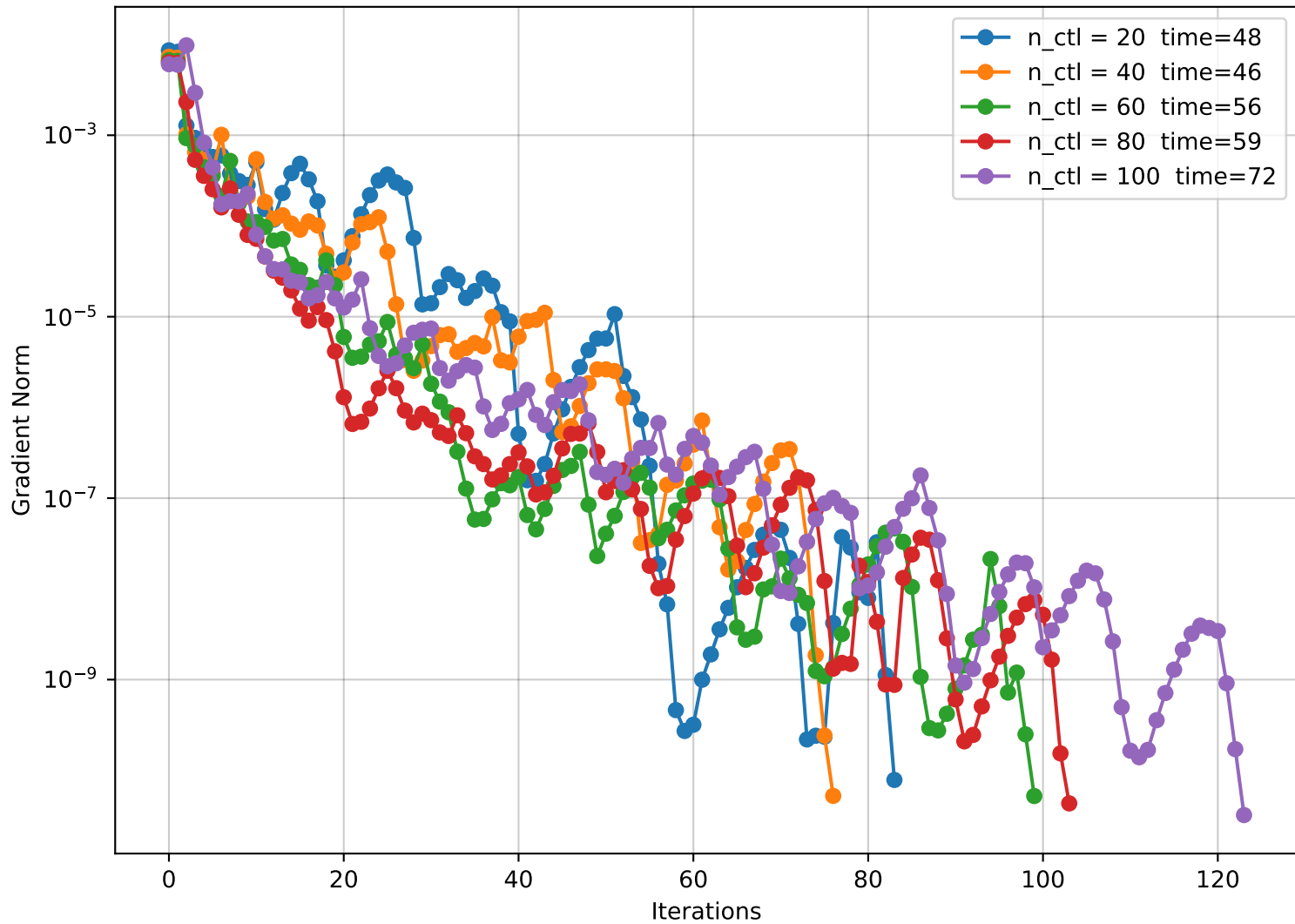
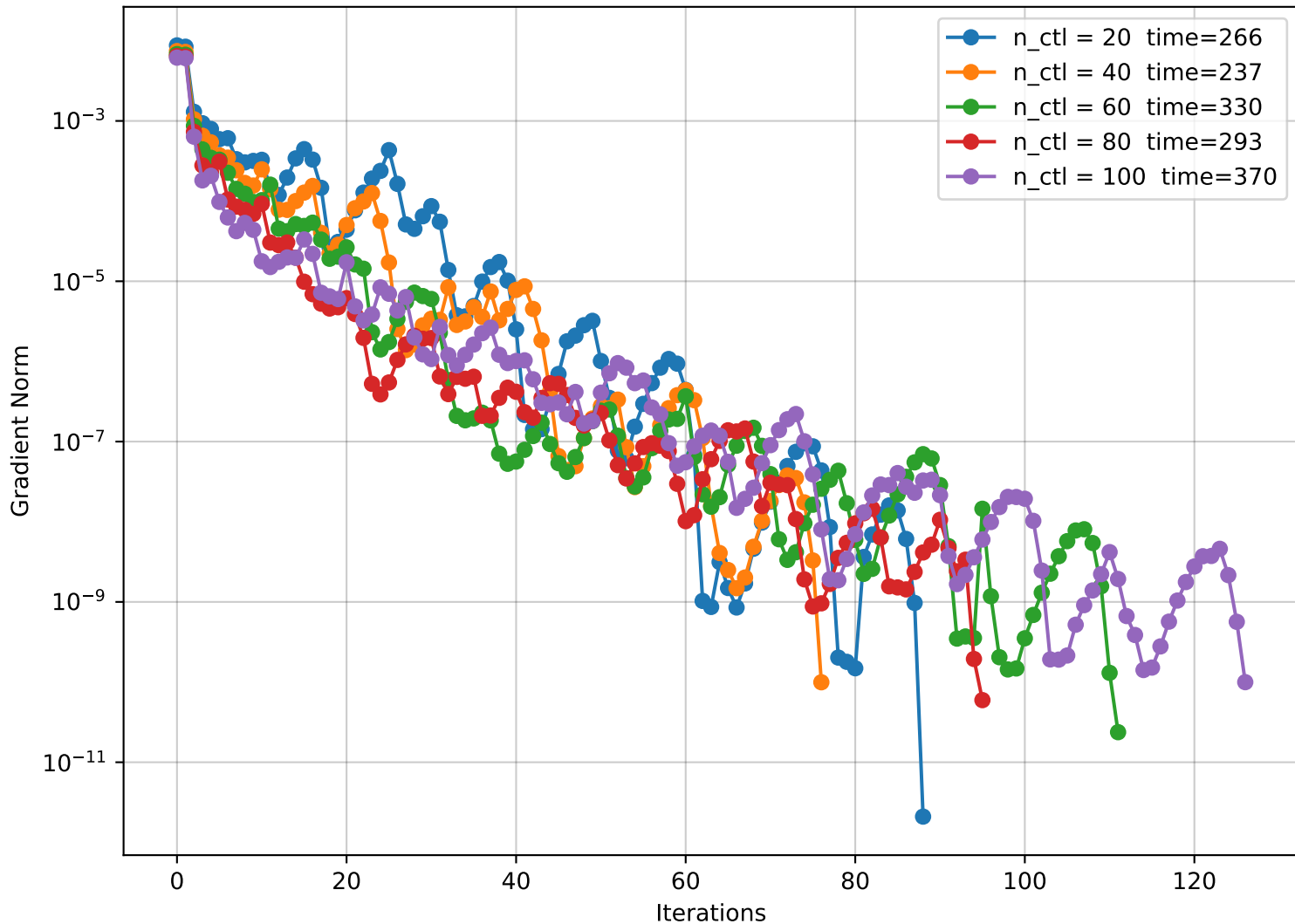


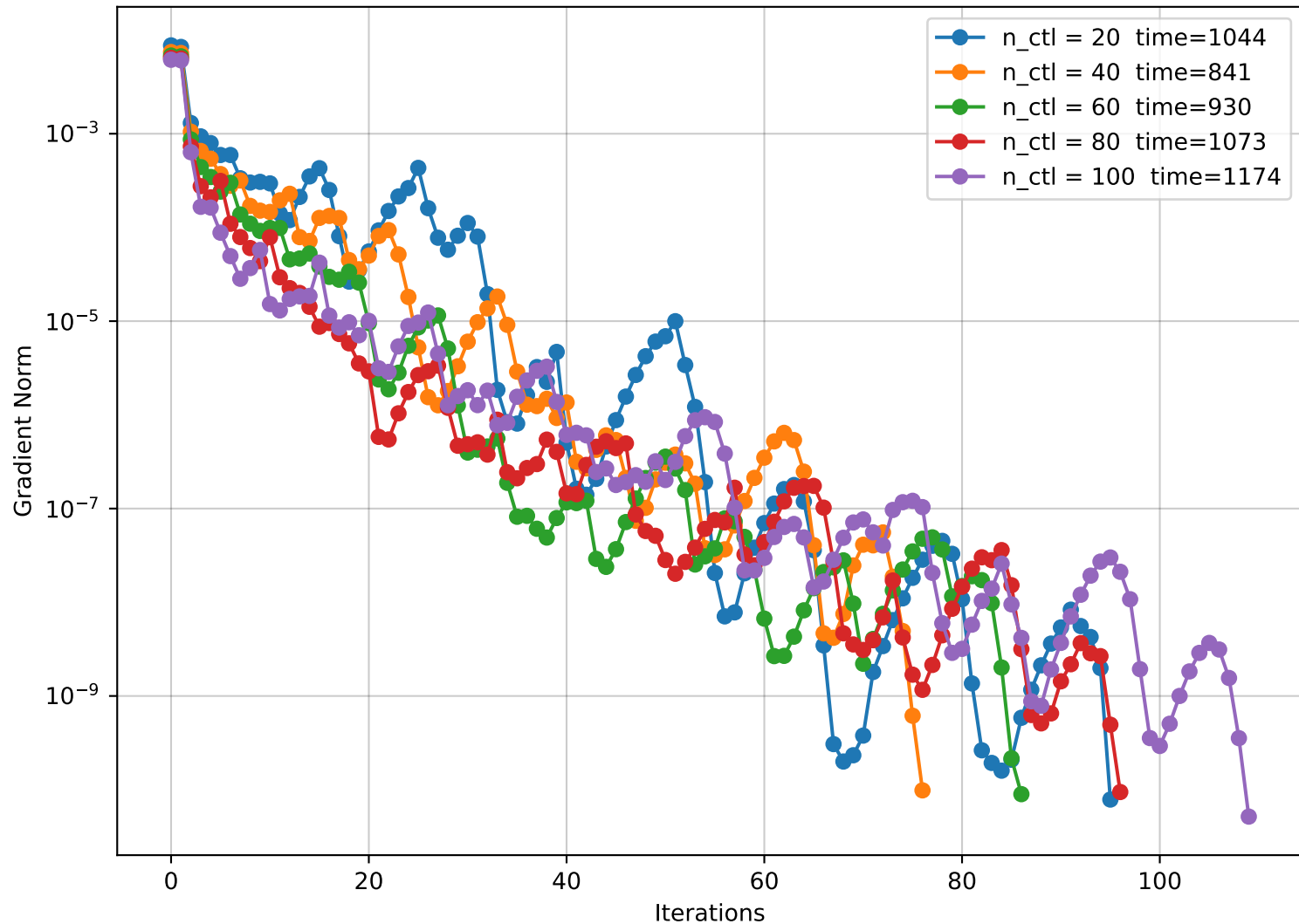
Reduced space BFGS Gradient vs Iterations, P=1, nDoFs=4000



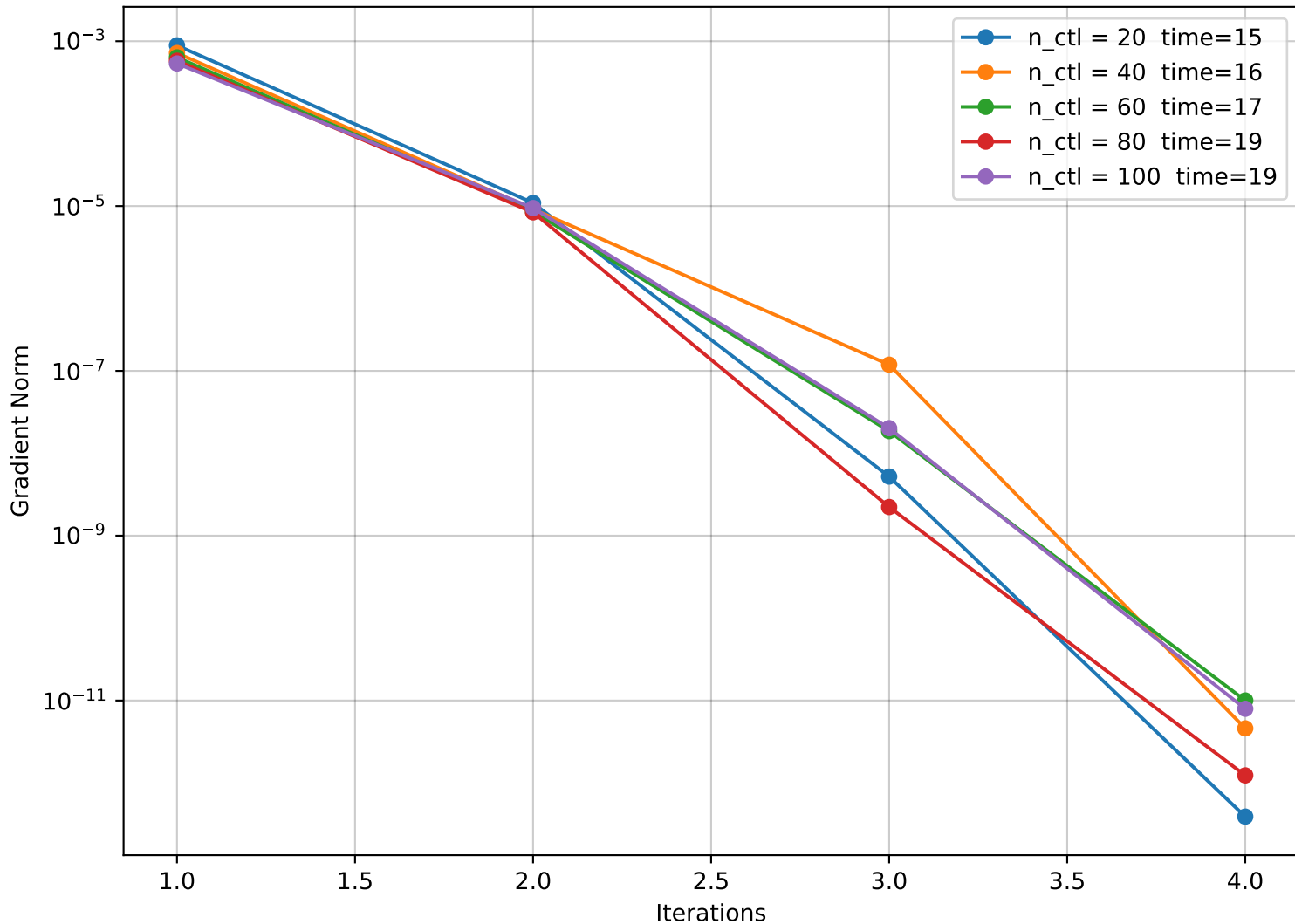
Reduced space BFGS Gradient vs Iterations, P=2, nDoFs=9000



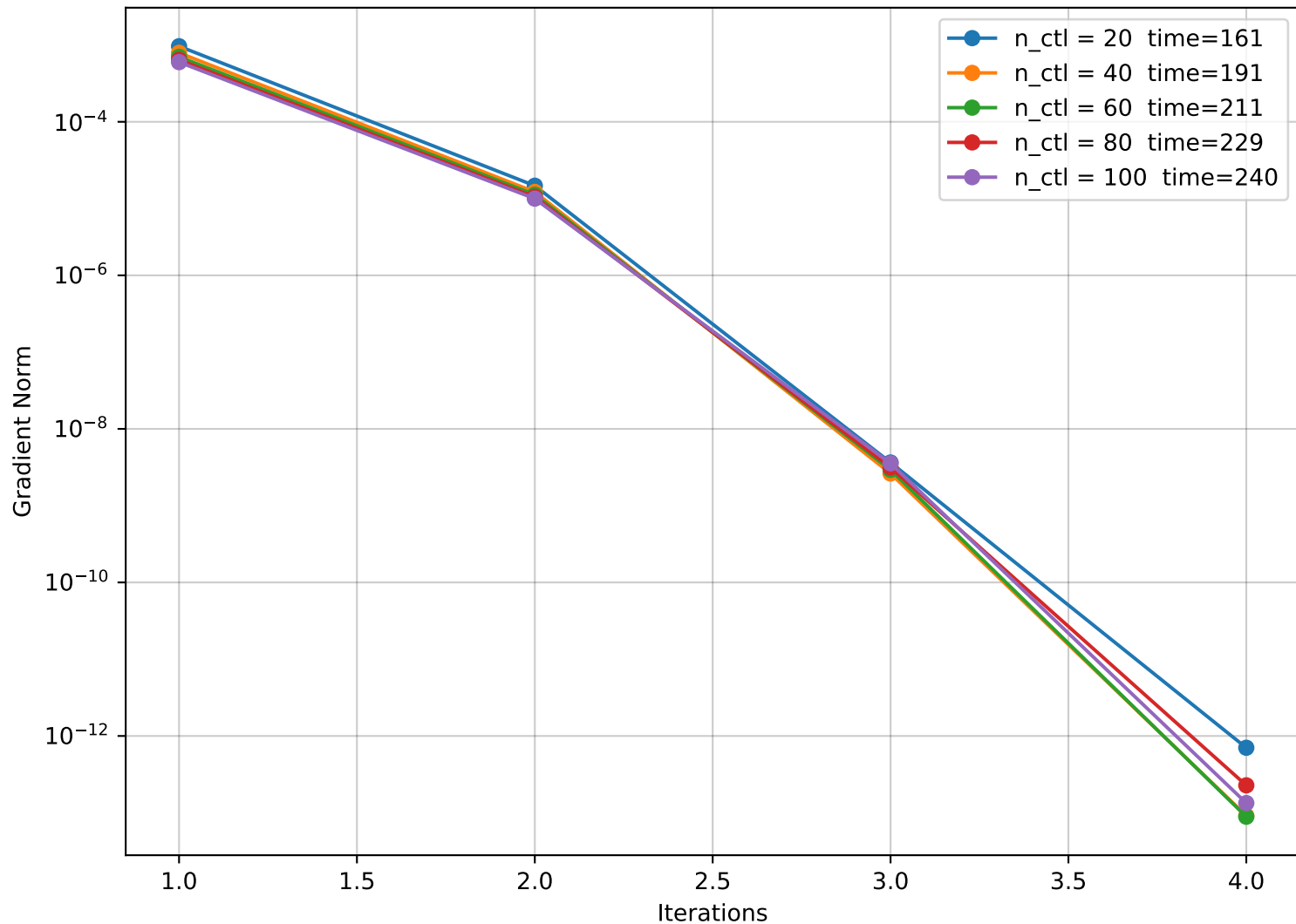
Reduced space BFGS Gradient vs Iterations, P=3, nDoFs=16000



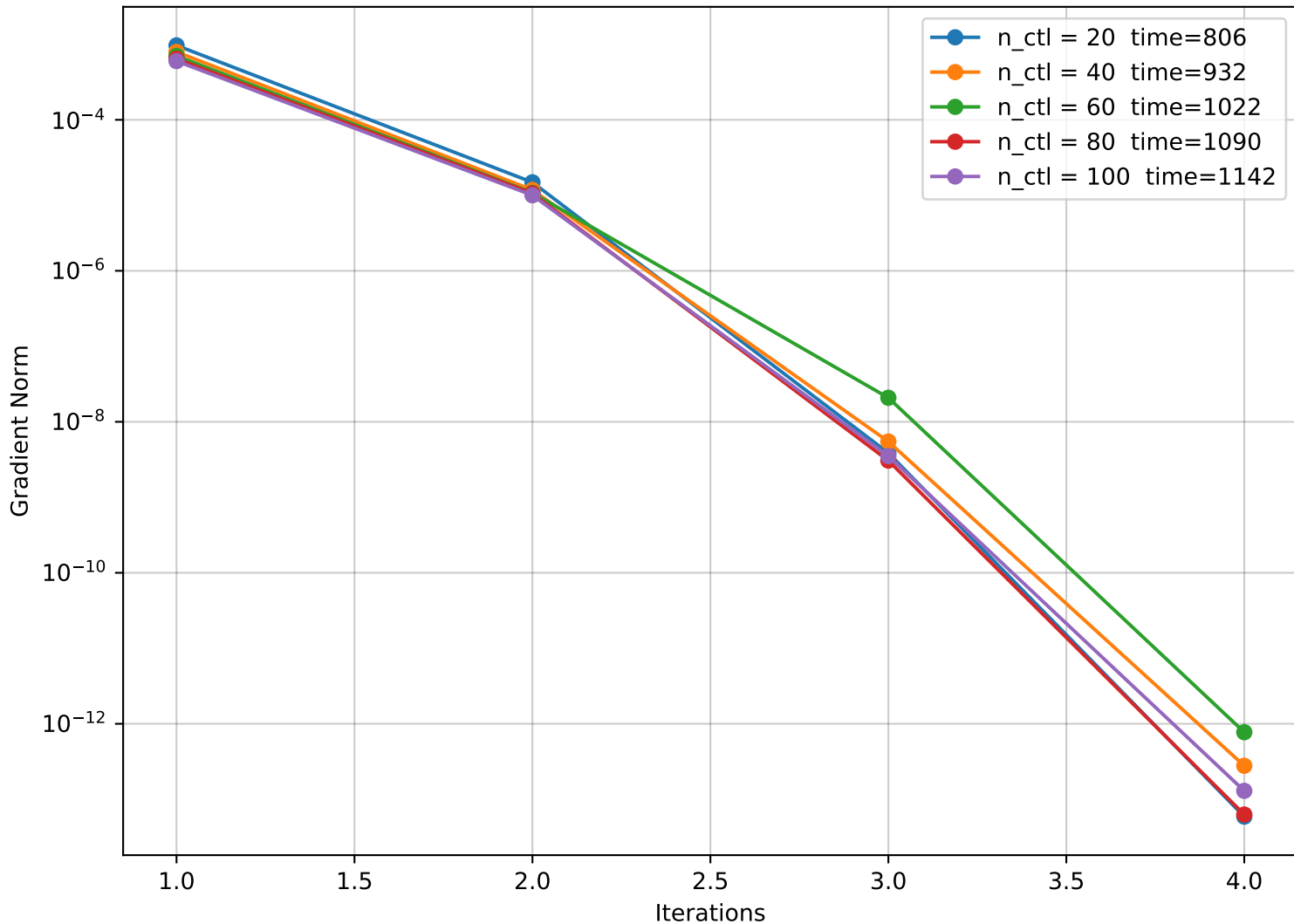
Reduced space Newton Gradient vs Iterations, P=1, nDoFs=4000



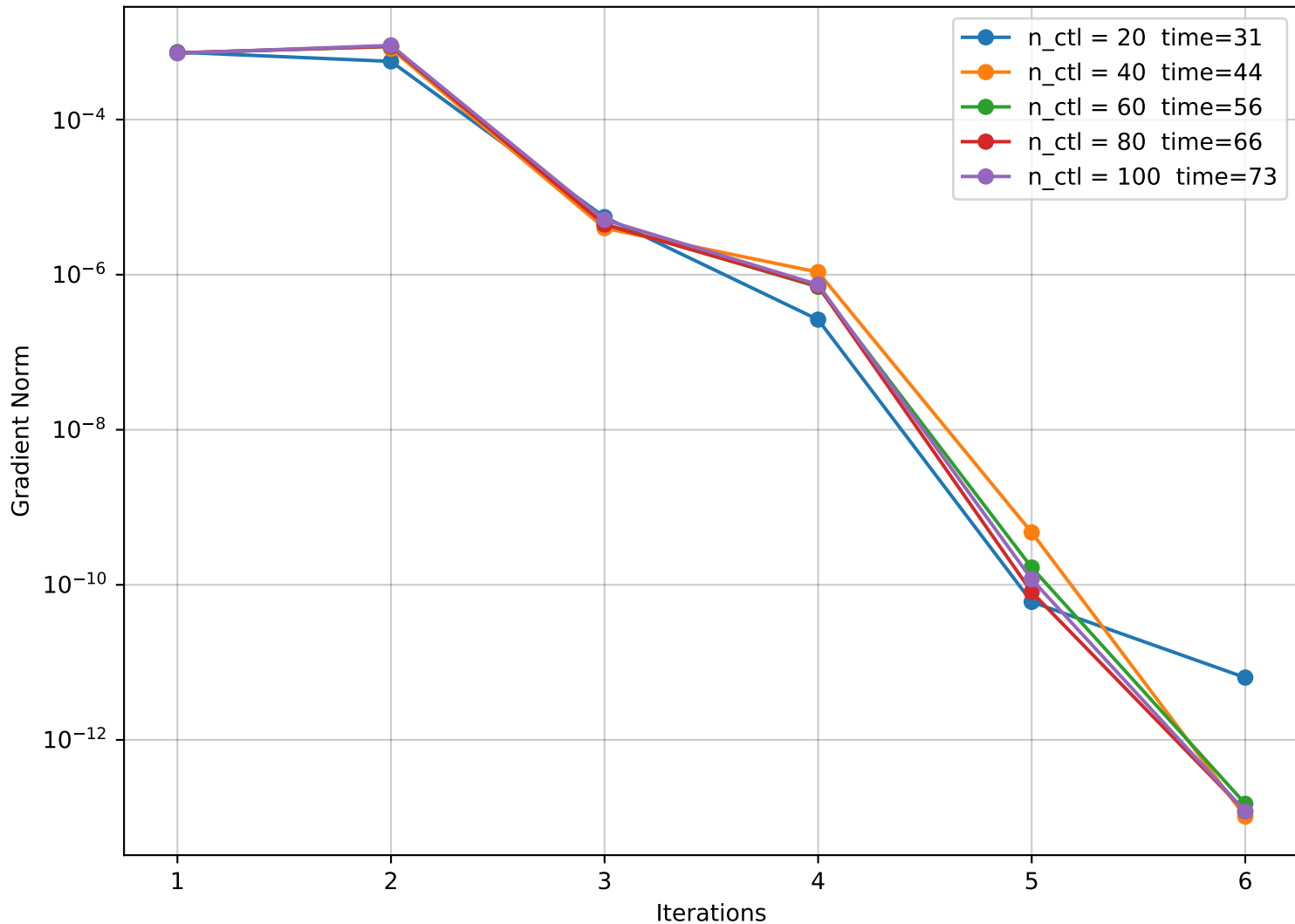
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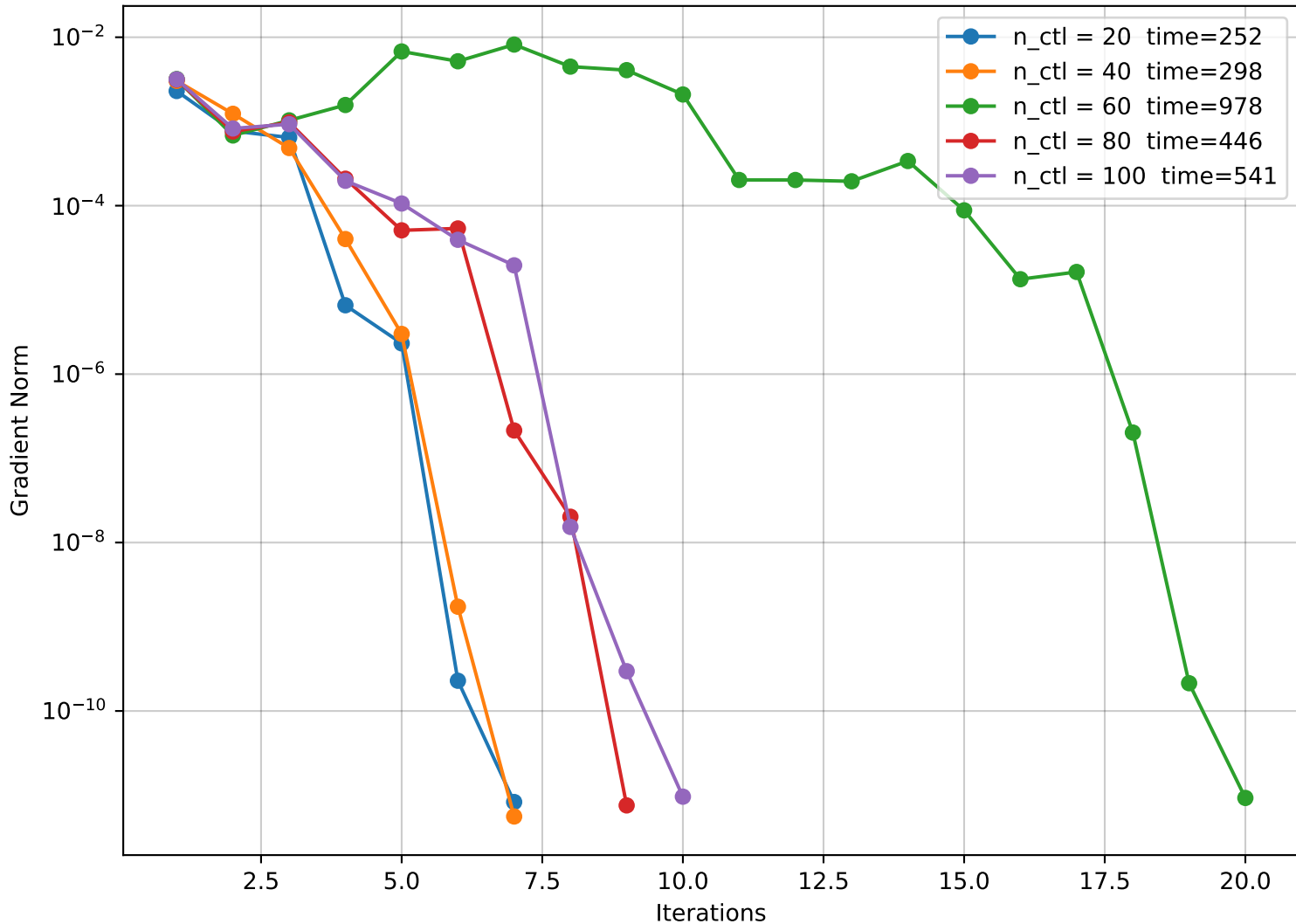
Reduced space Newton Gradient vs Iterations, P=3, nDoFs=16000



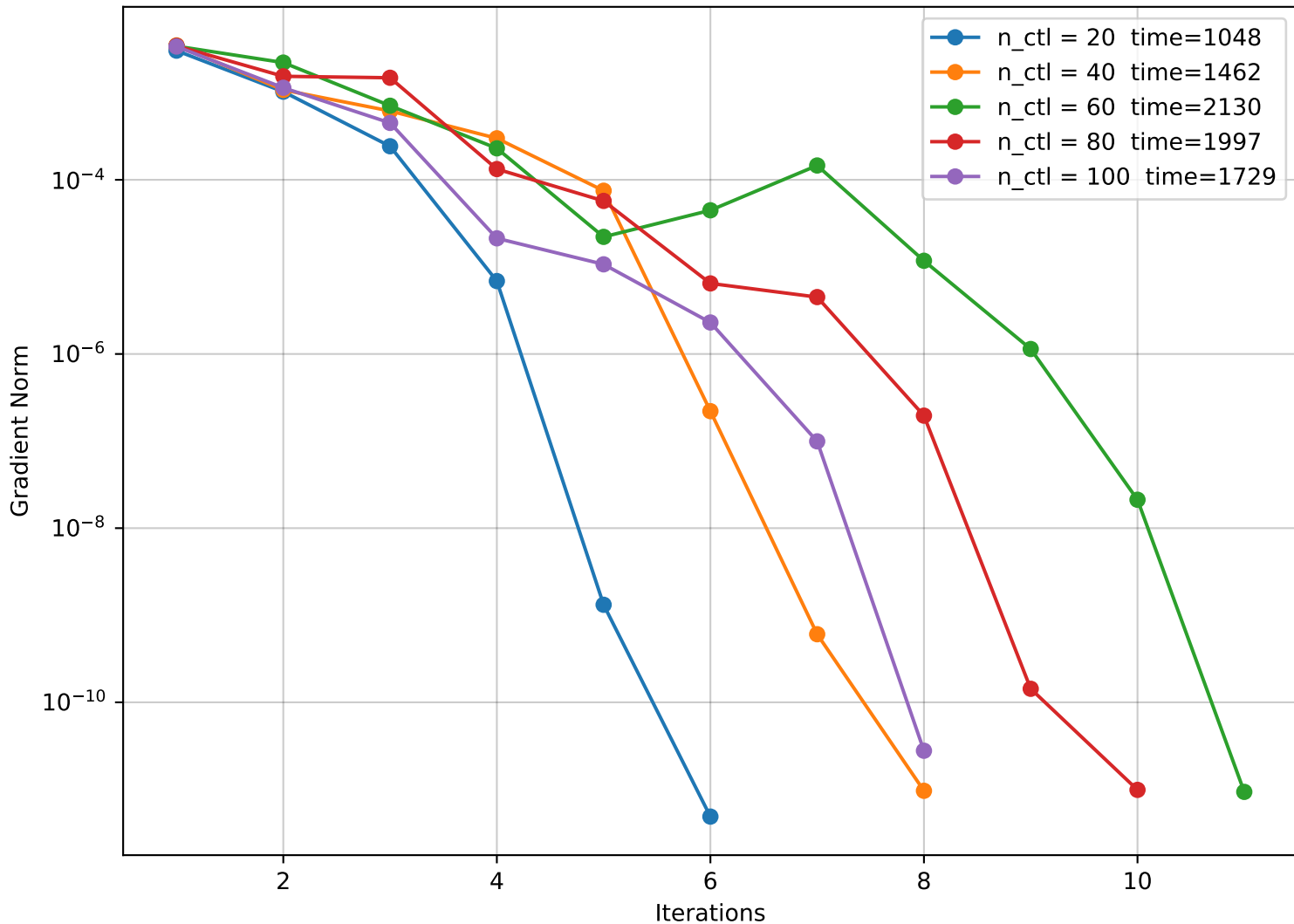
Full Space with P2A Gradient vs Iterations, P=1, nDoFs=4000



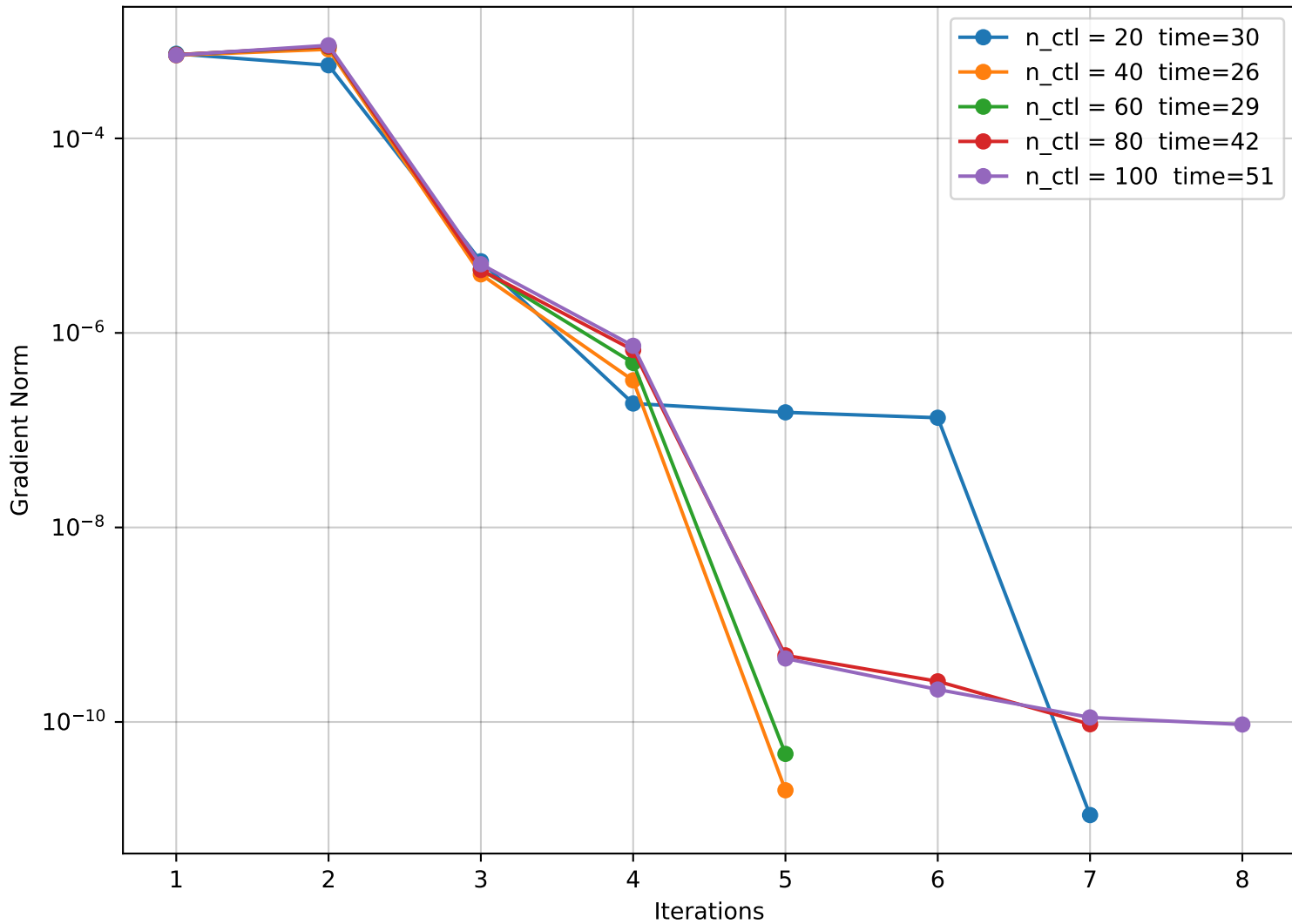
Full Space with P2A Gradient vs Iterations, P=2, nDoFs=9000



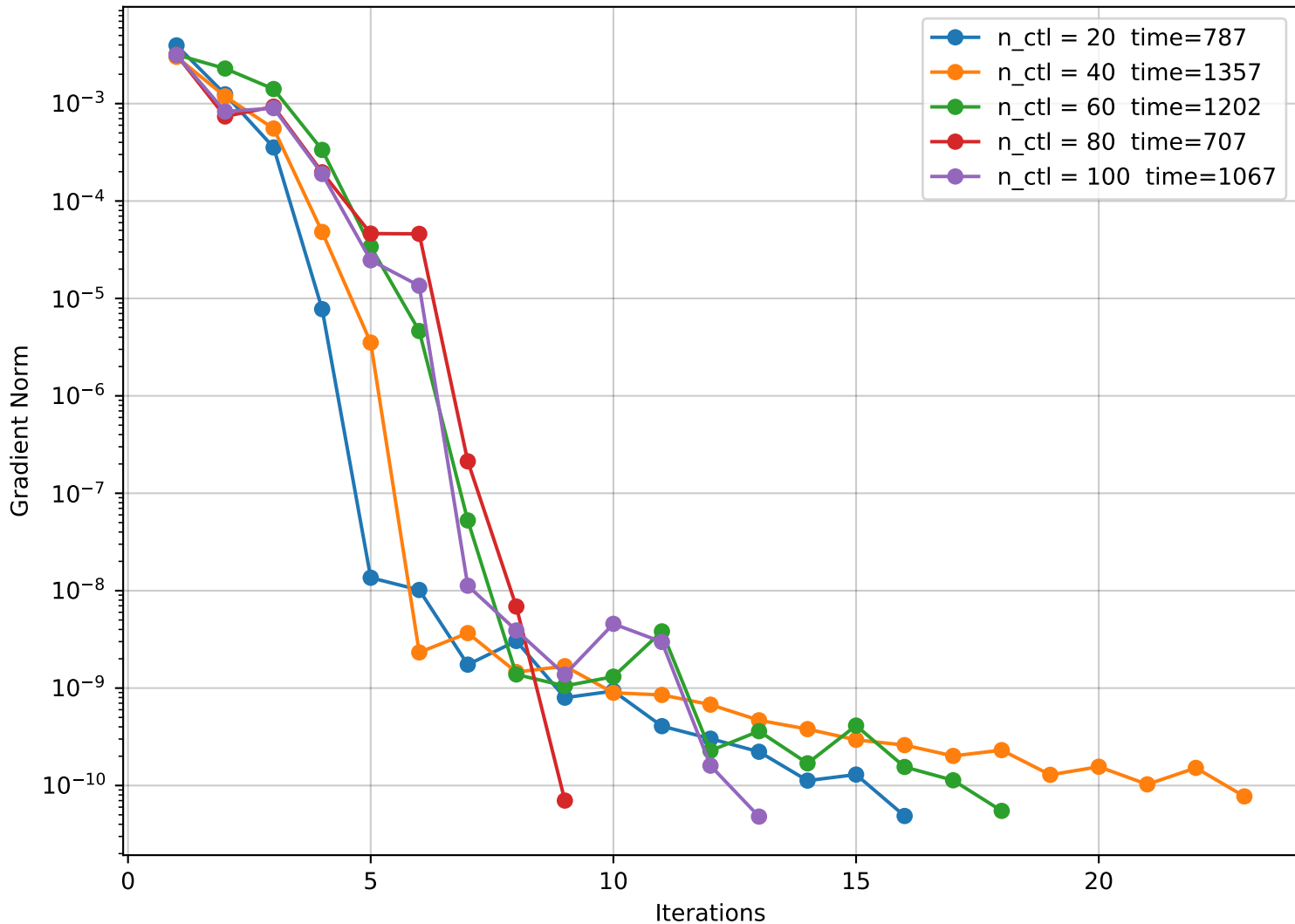
Full Space with P2A Gradient vs Iterations, P=3, nDoFs=16000



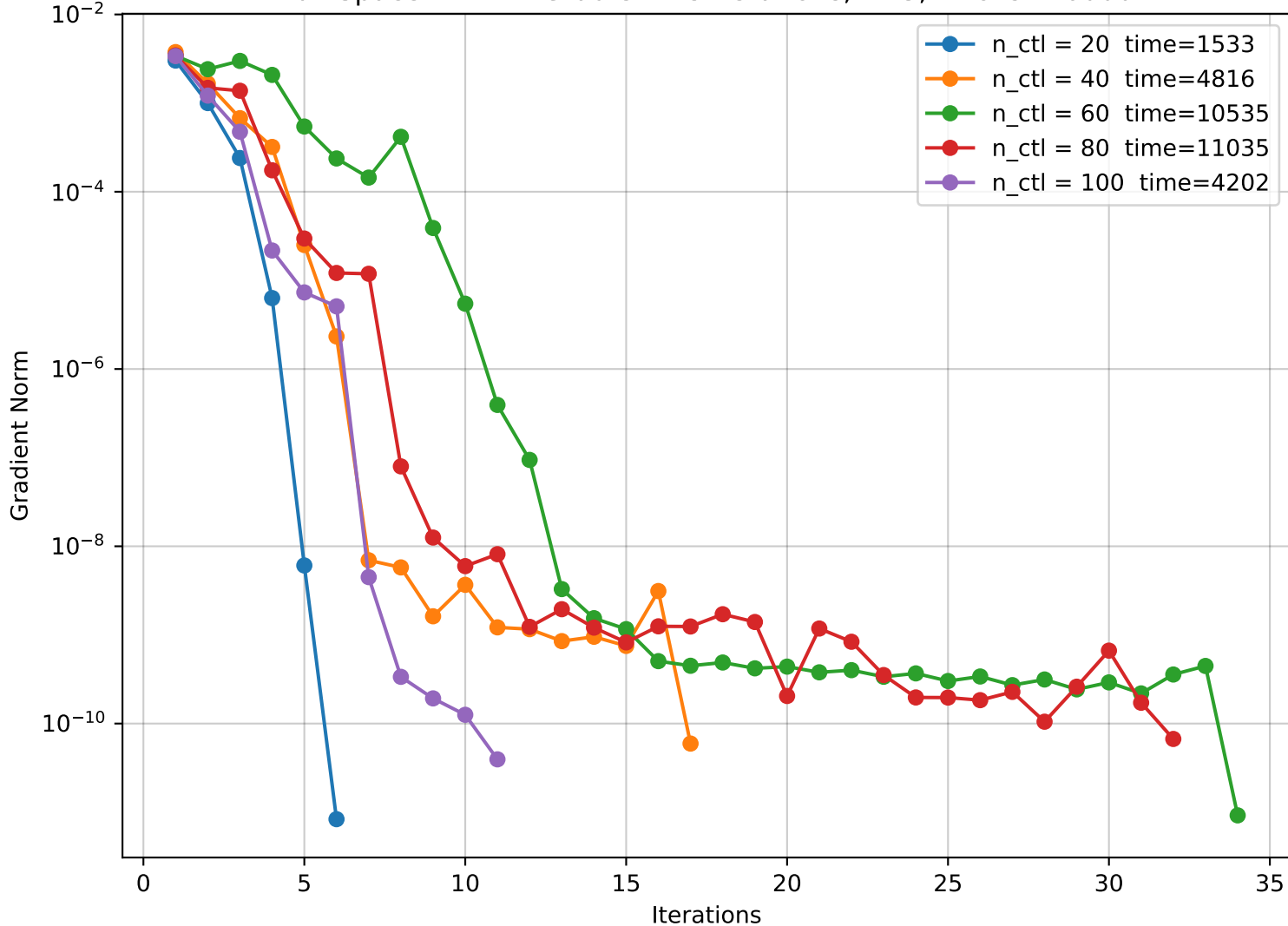
Full Space with P2 Gradient vs Iterations, P=1, nDoFs=4000



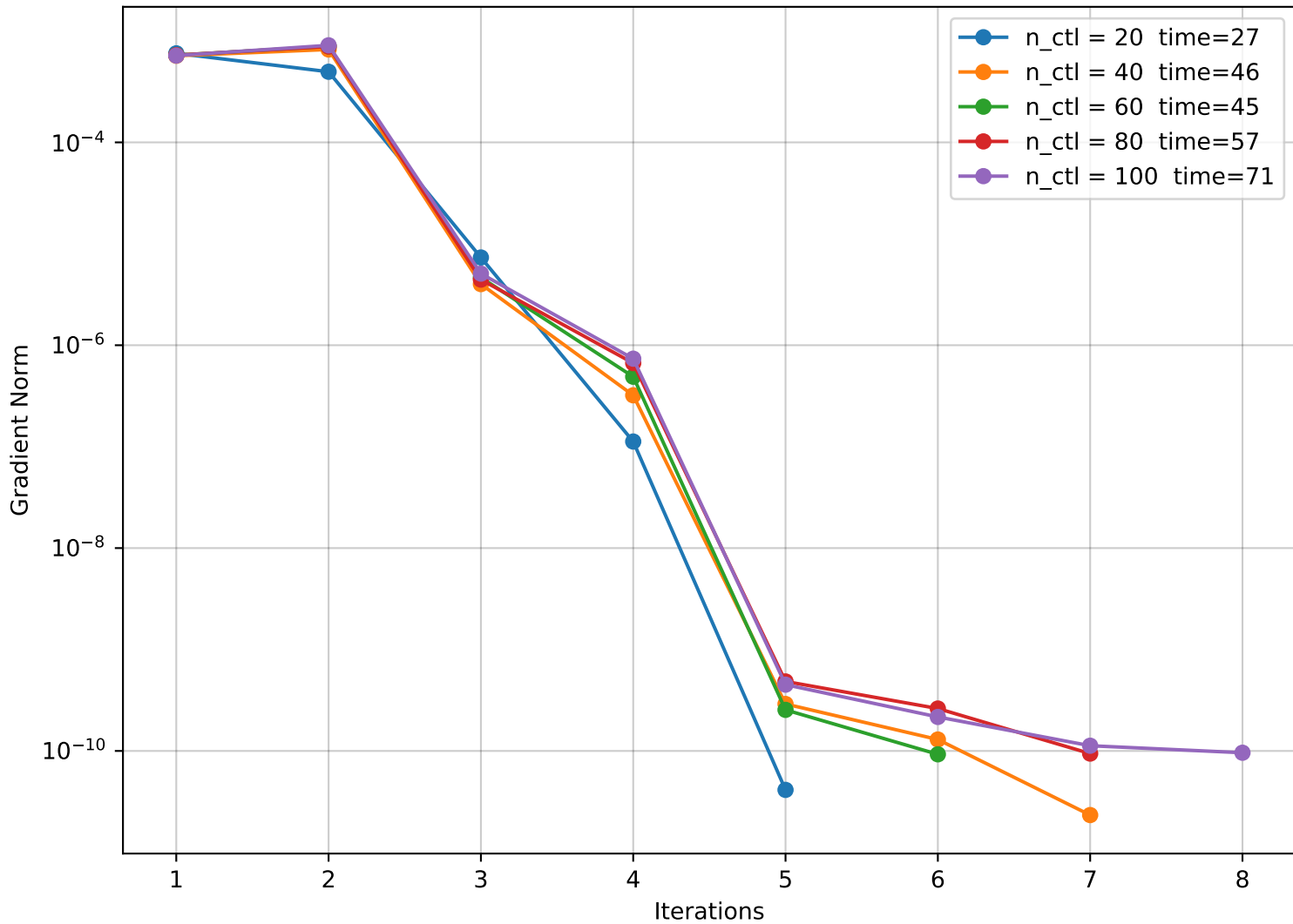
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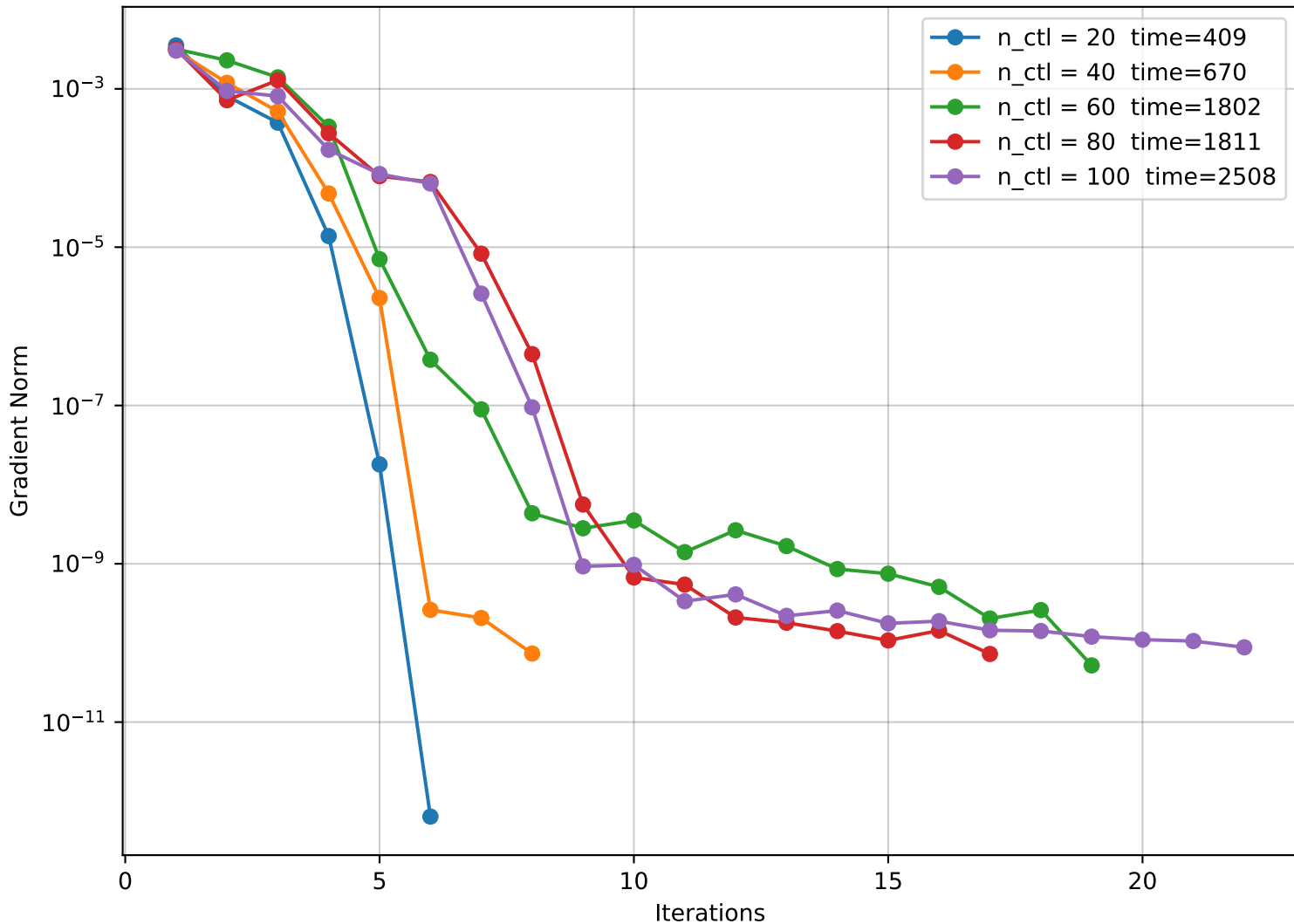
Full Space with P2 Gradient vs Iterations, P=3, nDoFs=16000



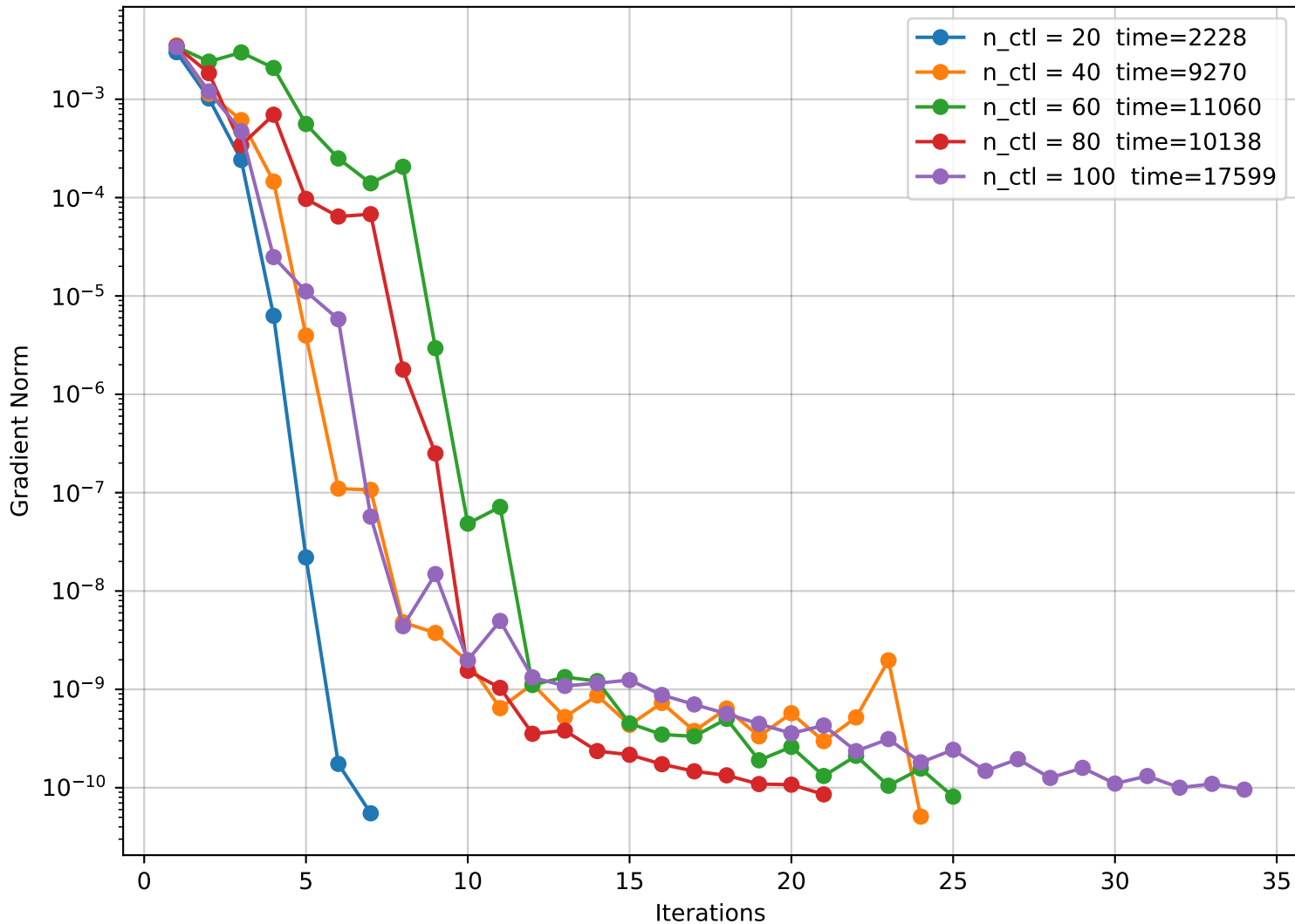
Full Space with P4 Gradient vs Iterations, P=1, nDoFs=4000



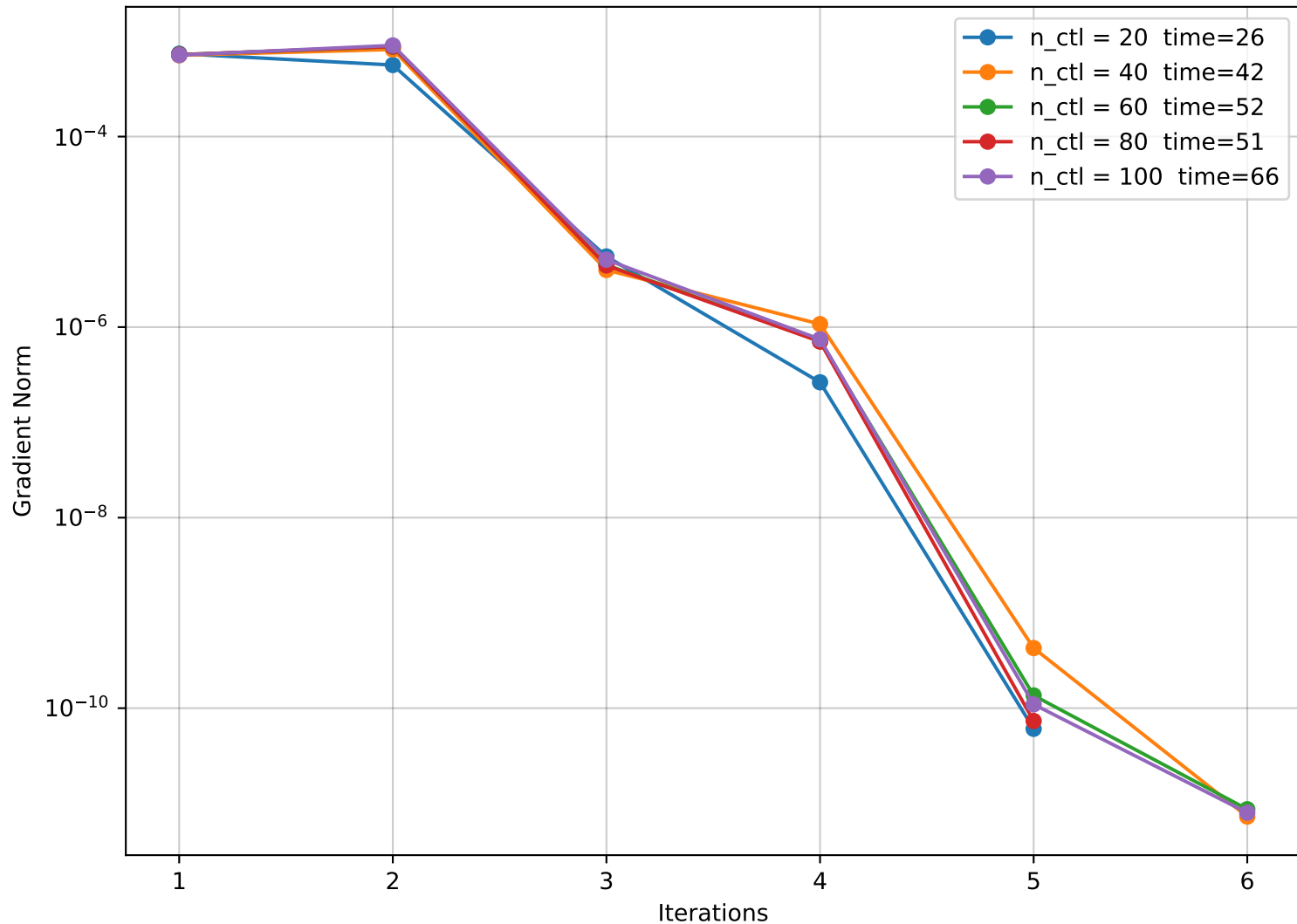
Full Space with P4 Gradient vs Iterations, P=2, nDoFs=9000



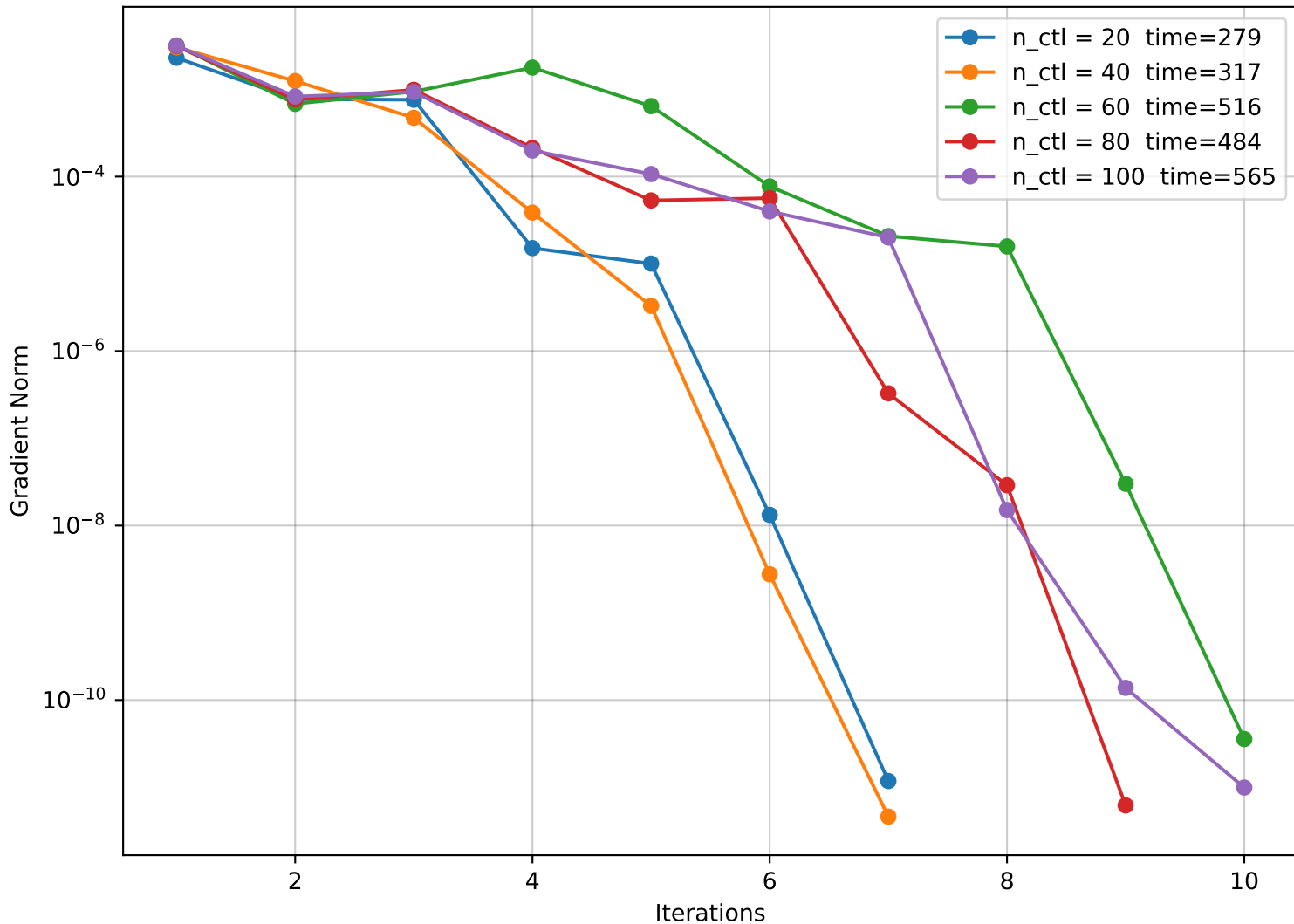
Full Space with P4 Gradient vs Iterations, P=3, nDoFs=16000



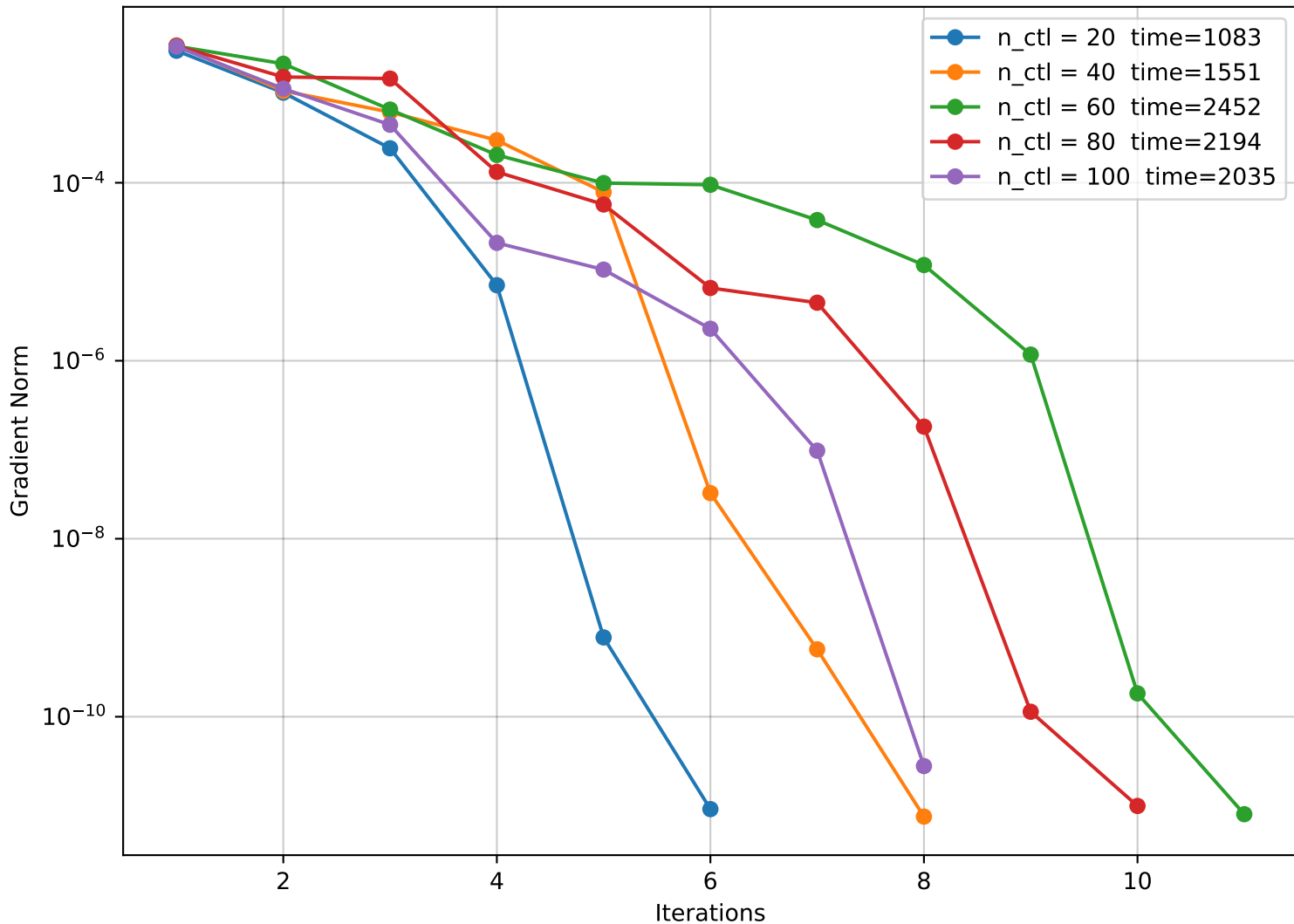
Full Space with P4A Gradient vs Iterations, P=1, nDoFs=4000



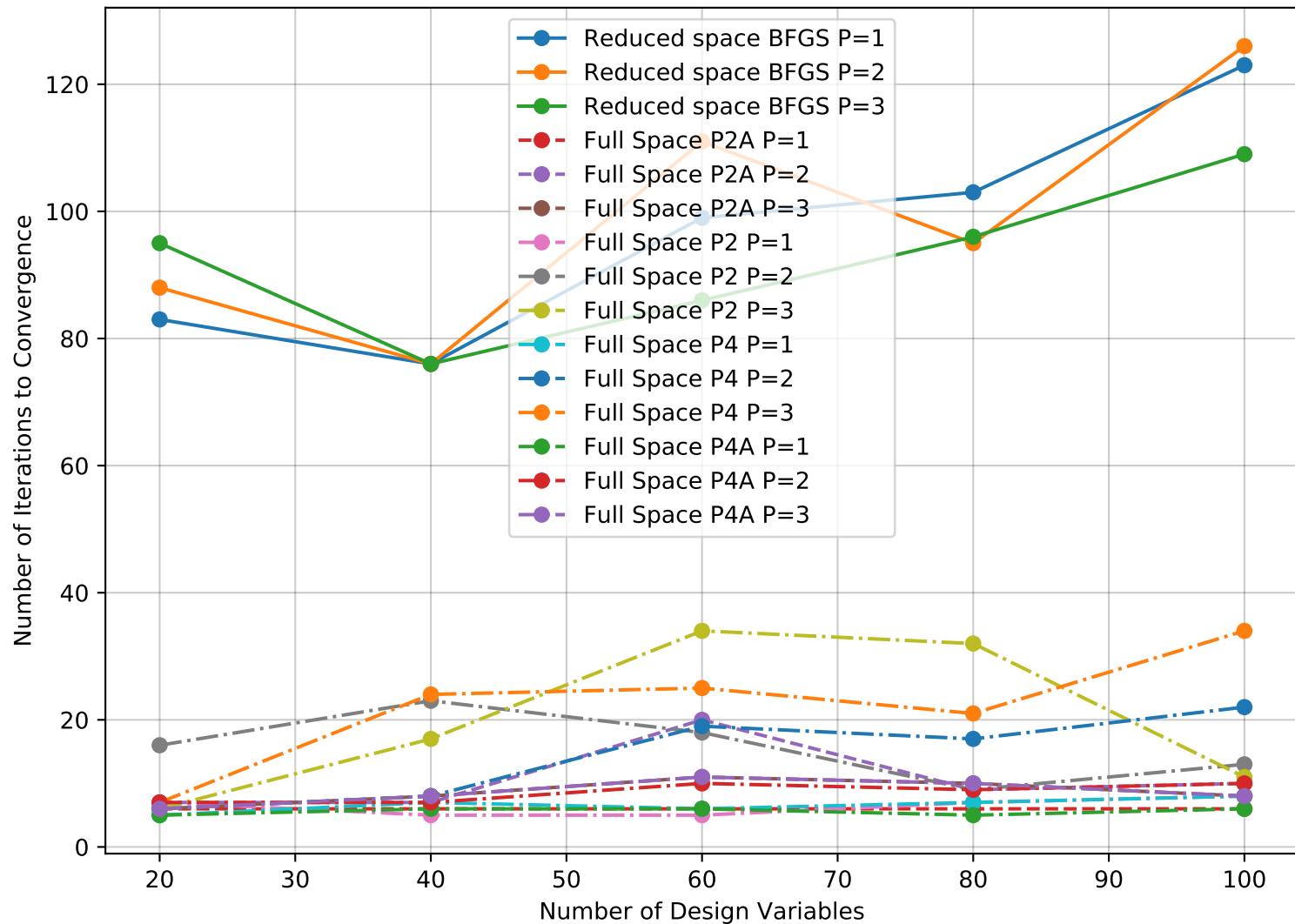
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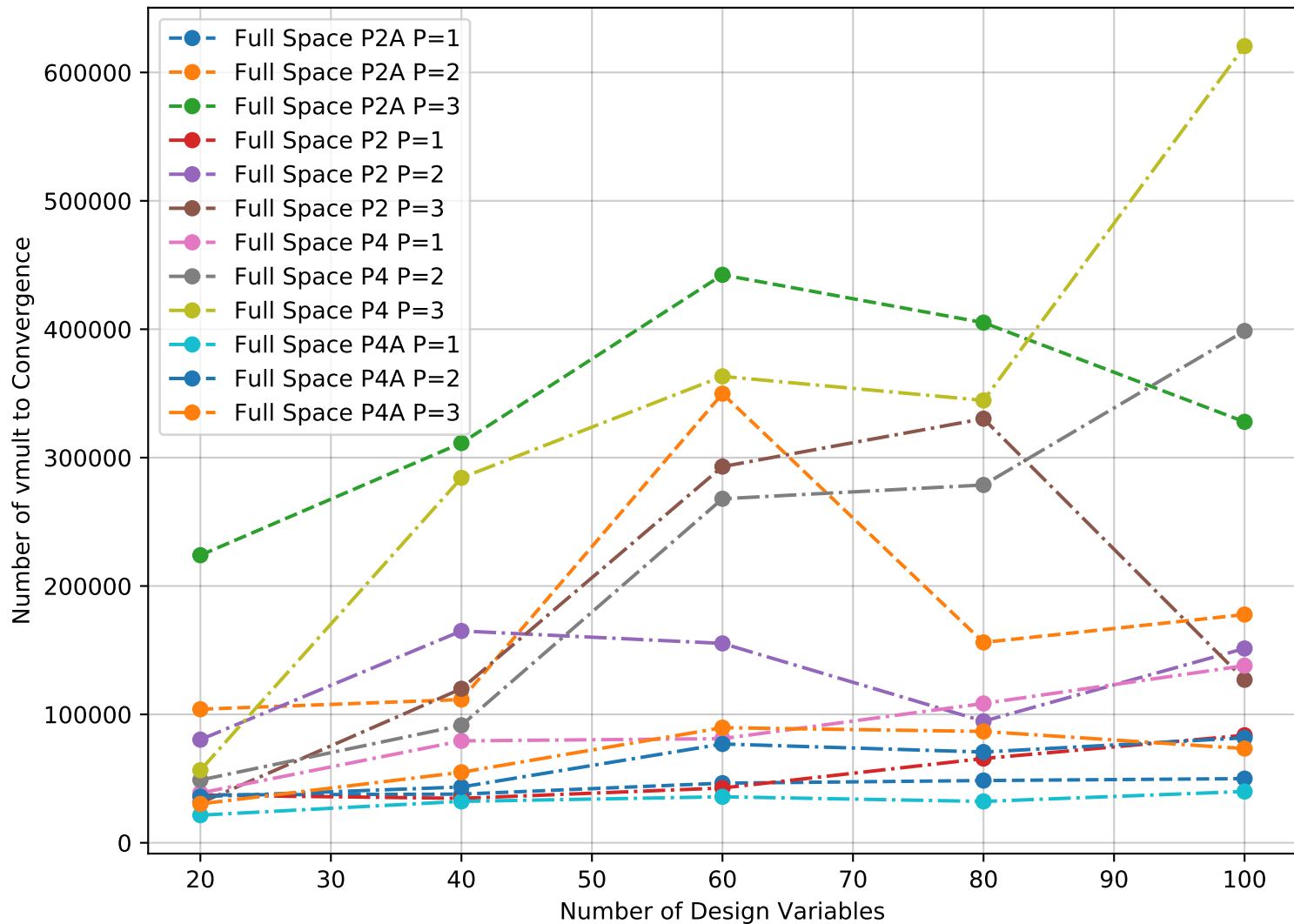
Full Space with P4A Gradient vs Iterations, P=3, nDoFs=16000



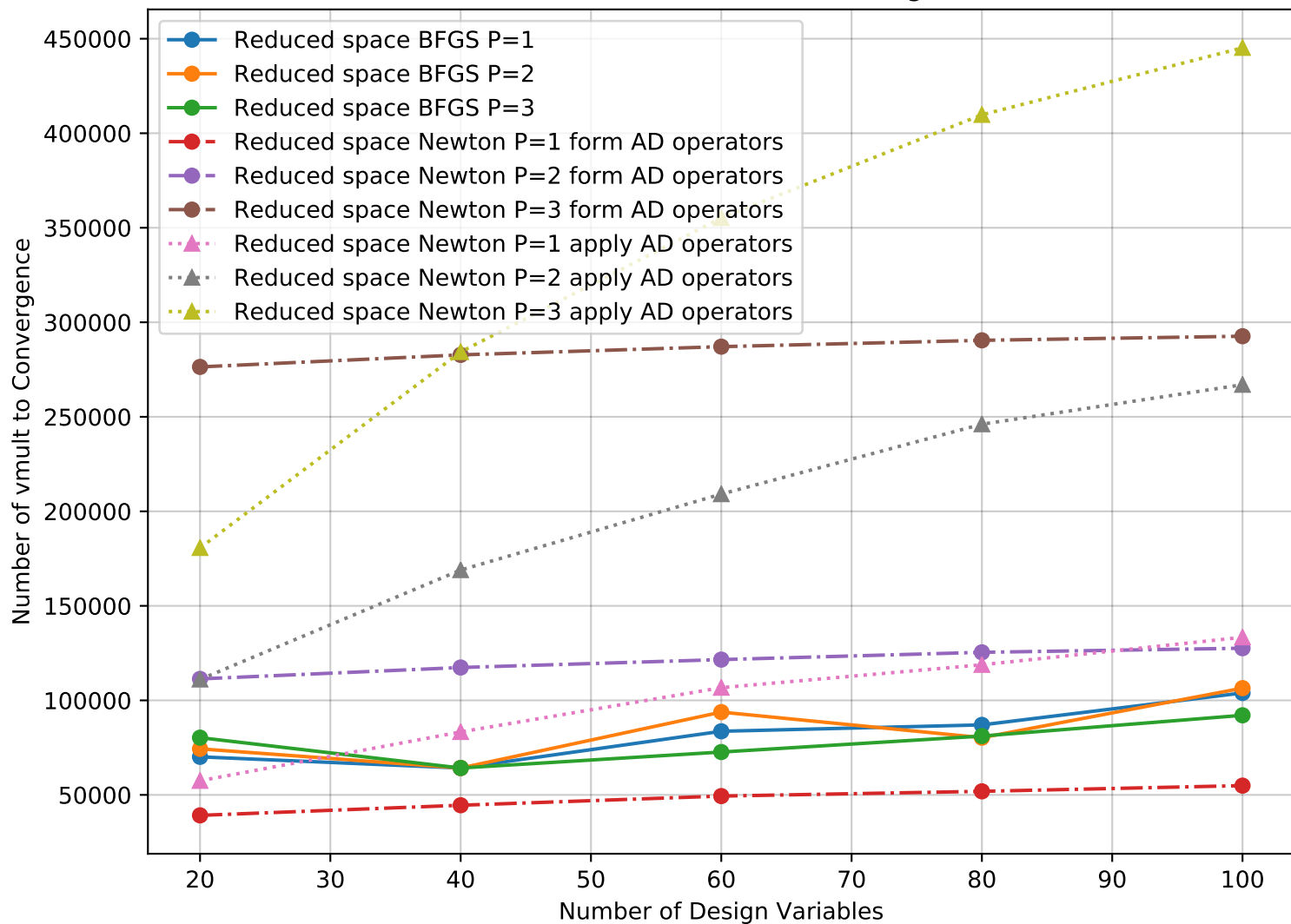
Iterations vs Design Variables



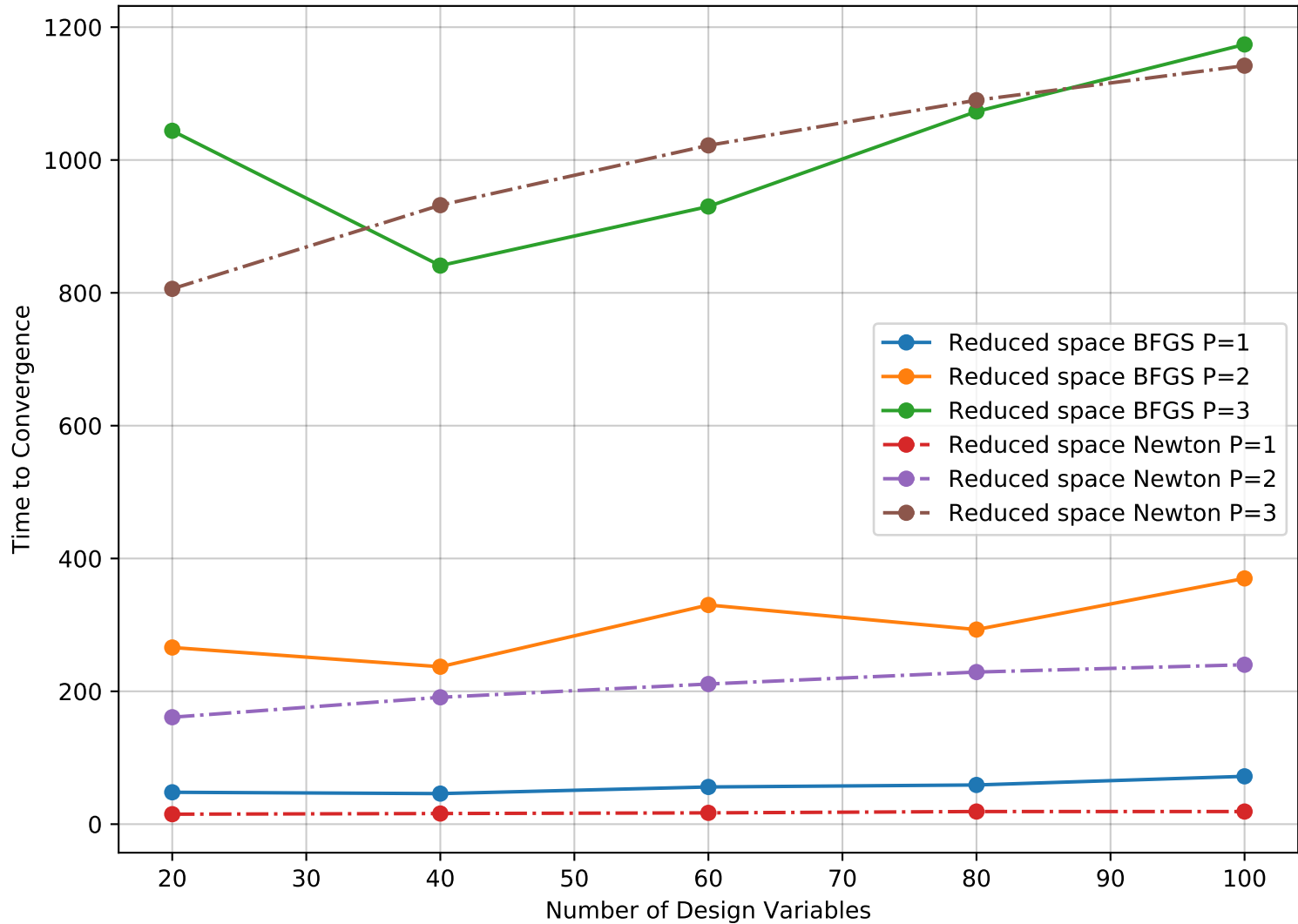
Number of matrix-vector vmult vs Design Variables



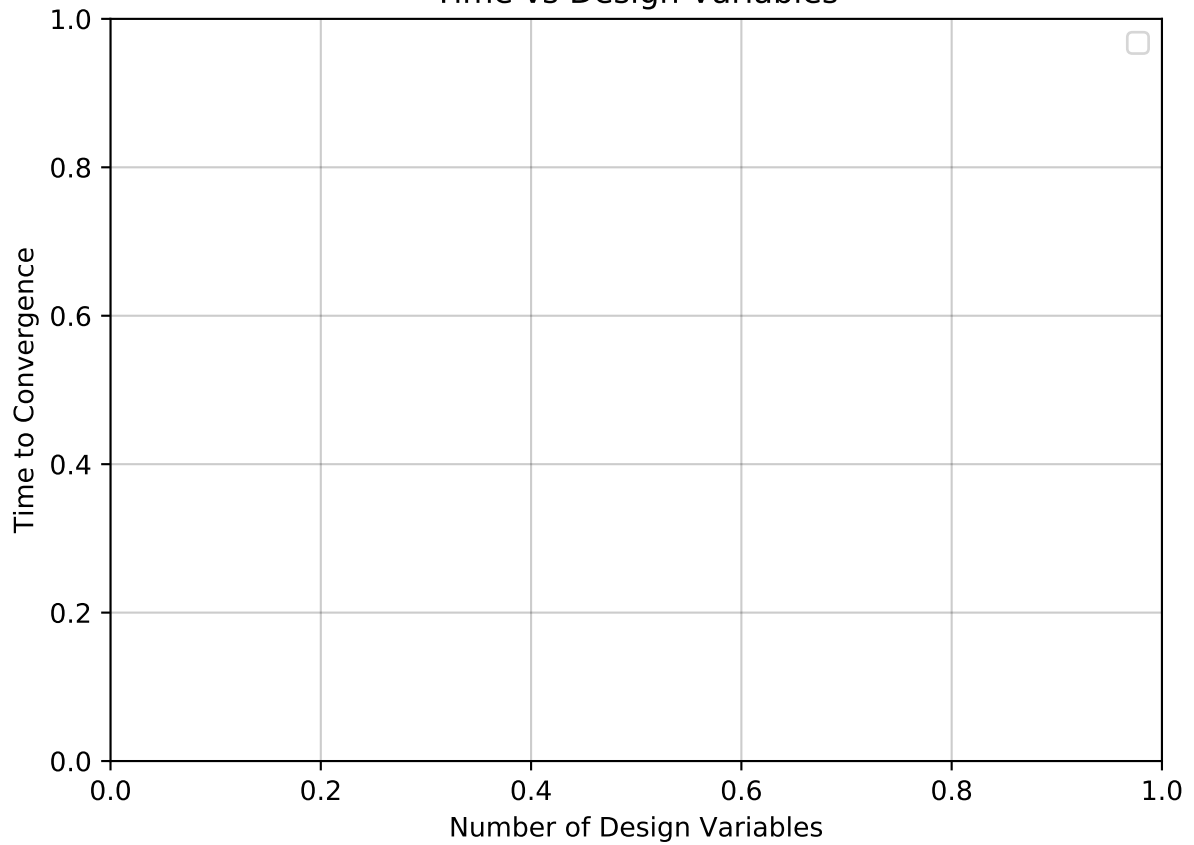
Number of matrix-vector vmult vs Design Variables



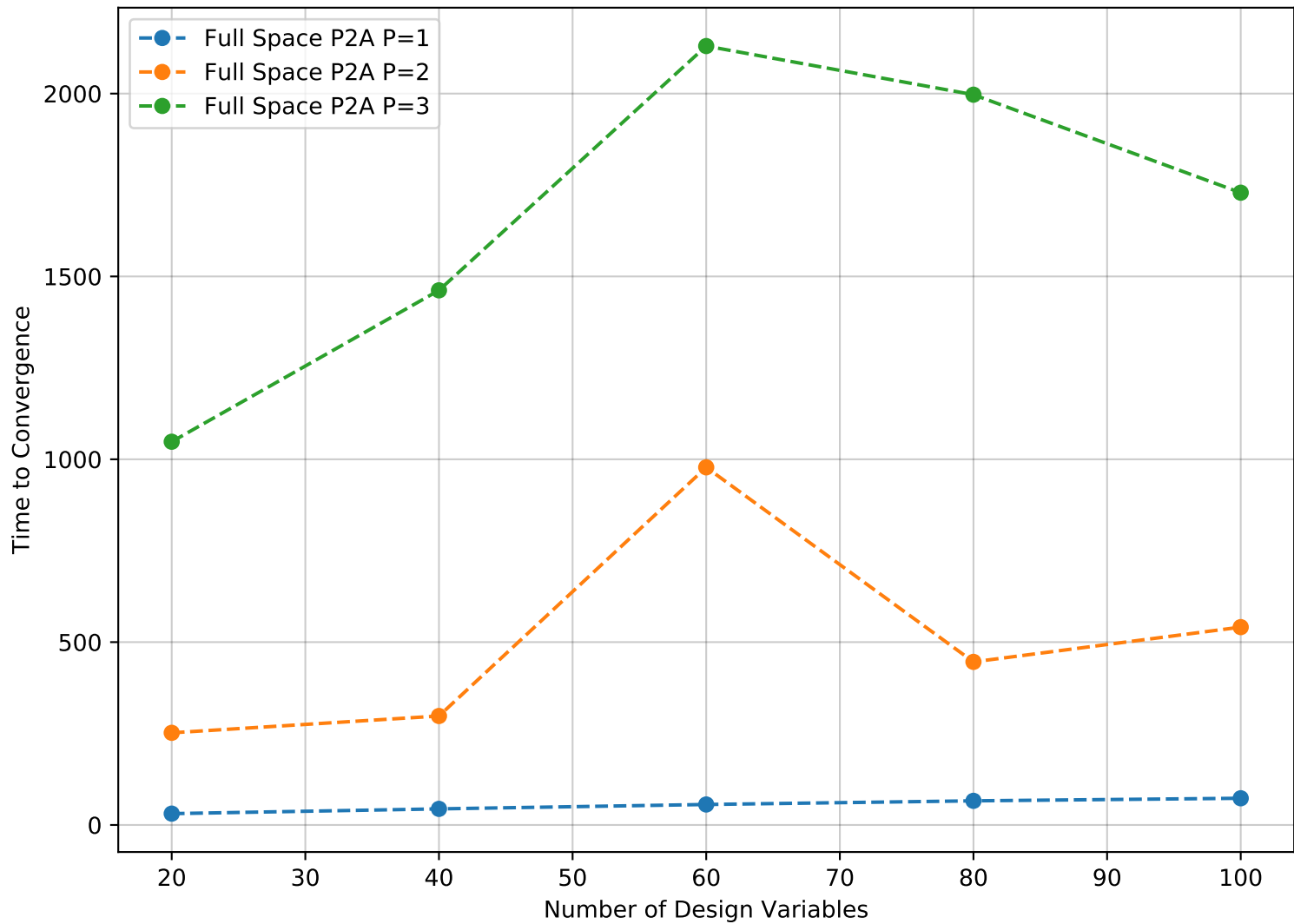
Time vs Design Variables



Time vs Design Variables



Time vs Design Variables



Time vs Design Variables

