How to read SPRTs:

If LLR is greater than the upper bound, we can say that the SPRT has passed and that with reasonable confidence the new version is better than the old version

SPRT new version vs old best version

**21/11/2024:**

**Test: Negamax Fixed Depth 2 vs Random Mover**

Command:

fastchess -engine cmd=Engines\Gambit\Gambit\_negamax\_fixed\_depth\_2.exe name=GambitNegamaxFixedDepth -engine cmd=Engines\Gambit\Gambit\_random\_mover.exe name=GambitRandomMover -openings file=Gambit\product\src\books\8moves\_v3.epd format=epd order=random -each tc=8+0.08 -rounds 999999 -repeat -concurrency 10 -sprt elo0=0 elo1=10 alpha=0.05 beta=0.1

Output:

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Results of GambitNegamaxFixedDepth vs GambitRandomMover (8+0.08, NULL, NULL, 8moves\_v3.epd):

Elo: 313.14 +/- 33.08, nElo: 546.86 +/- 35.02

LOS: 100.00 %, DrawRatio: 8.47 %, PairsRatio: inf

Games: 378, Wins: 271, Losses: 0, Draws: 107, Points: 324.5 (85.85 %)

Ptnml(0-2): [0, 0, 16, 75, 98], WL/DD Ratio: 0.00

LLR: 2.89 (-2.25, 2.89) [0.00, 10.00]

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**Test: Negamax Iterative Deepening vs Negamax Fixed Depth 2**

Command:

fastchess -engine cmd=Engines\Gambit\Gambit\_negamax\_iterative\_deepening.exe name=GambitNegamaxIterativeDeepening -engine cmd=Engines\Gambit\Gambit\_negamax\_fixed\_depth\_2.exe name=GambitNegamaxFixedDepth -openings file=Gambit\product\src\books\8moves\_v3.epd format=epd order=random -each tc=8+0.08 -rounds 999999 -repeat -concurrency 10 -sprt elo0=0 elo1=10 alpha=0.05 beta=0.1

Output:

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Results of GambitNegamaxIterativeDeepening vs GambitNegamaxFixedDepth (8+0.08, NULL, NULL, 8moves\_v3.epd):

Elo: -162.99 +/- 31.65, nElo: -271.43 +/- 45.50

LOS: 0.00 %, DrawRatio: 27.68 %, PairsRatio: 0.05

Games: 224, Wins: 7, Losses: 105, Draws: 112, Points: 63.0 (28.12 %)

Ptnml(0-2): [25, 52, 31, 4, 0], WL/DD Ratio: 0.11

LLR: -2.26 (-2.25, 2.89) [0.00, 10.00]

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