0.4

0.6

8.0

1.0

0.0

0.2

CS TF1 TF2 Predator Prober 4 Handshake Winner21 Hard Prober Fortress4 Ripoff Tester Grudger TF3 Davis Retaliate 3 MEM2 EvolvedLookerUp1_1_1 Limited Retaliate 3 Fool Me Once Forgetful Grudger Retaliate Retaliate 2 Limited Retaliate 2 Limited Retaliate Meta Hunter Inverse Punisher Punisher Forgiver HTfT Inverse Spiteful Tit For Tat 2TfT Winner12 Fortress3 **Evolved ANN** Shubik **Evolved ANN 5** PSO Gambler 1_1_1 Thumper Evolved FSM 16 Noise 05 Forgetful Fool Me Once PSO Gambler Mem1 Level Punisher Omega TFT PSO Gambler 2_2_2 Adaptive Pavlov 2006 PSO Gambler 2_2_2 Noise 05 Evolved ANN 5 Noise 05 Gradual **Evolved HMM 5** Resurrection Adaptive Pavlov 2011 EvolvedLookerUp2_2_2 Adaptive Tit For Tat TfT Nice Average Copier Worse and Worse 3 FTfT Evolved FSM 16 Remorseful Prober ShortMem Soft Joss General Soft Grudger Soft Grudger Soft Go By Majority: 5 Doubler Prober 2 **Revised Downing** Once Bitten ZD-GTFT-2 ZD-GEN-2 GrudgerAlternator VeryBad Evolved FSM 4 Slow Tit For Two Tats 2 Soft Go By Majority: 10 Soft Go By Majority: 20 Soft Go By Majority: 40 Soft Go By Majority HTf2T Firm But Fair **GTFT** Eatherley **WSLS Appeaser** Math Constant Hunter Adaptive Grumpy Tf2T Slow Tit For Two Tats Grofman Worse and Worse 2 Stochastic WSLS Gradual Killer Sneaky Tit For Tat Stochastic Cooperator ALLCorALLD ZD-SET-2 Meta Hunter Aggressive Defector Better and Better **Eventual Cycle Hunter** Cautious QLearner Risky QLearner Pun1 Arrogant QLearner Hesitant QLearner Average Copier Raider SelfSteem Nydegger Aggravater Cycle Hunter Random Hunter Random Calculator ZD-Extort-4 **Defector Hunter** Alternator Hunter Feld Cooperator Tullock Desperate Fool Me Forever Worse and Worse EasyGo Cycler DDC ThueMorseInverse ThueMorse ZD-Extort-2 ZD-Extort-2 v2 Alternator Cycler DC Cooperator Hunter Cycler CCCDCD Cycler CCD AntiCycler Cycler CCCD Cycler CCCCCD Prober 3 **Tricky Cooperator** Negation Willing е π Bully Prober Joss φ Naive Prober Anti Tit For Tat SolutionB5 Hopeless Hard Go By Majority: 10 Hard Go By Majority: 20 Hard Go By Majority: 40 Tricky Defector Hard Go By Majority WShLSt Hard Go By Majority: 5 Suspicious Tit For Tat Opposite Grudger SolutionB1