CS TF1 TF2 Predator Prober 4 Handshake Winner21 Hard Prober Fortress4 Ripoff Tester Grudger TF3 Davis Retaliate 3 MEM2 Retaliate Retaliate 2 EvolvedLookerUp1_1_1 Forgetful Grudger Limited Retaliate 3 Fool Me Once Limited Retaliate 2 Limited Retaliate Inverse Punisher Punisher HTfT Forgiver Meta Hunter 2TfT Inverse Spiteful Tit For Tat Winner12 Shubik **Evolved ANN Evolved ANN 5** Thumper PSO Gambler 1_1_1 PSO Gambler Mem1 Forgetful Fool Me Once Evolved FSM 16 Noise 05 Fortress3 Level Punisher Omega TFT PSO Gambler 2_2_2 Adaptive Pavlov 2006 PSO Gambler 2_2_2 Noise 05 Gradual Evolved ANN 5 Noise 05 **Evolved HMM 5** Resurrection Adaptive Pavlov 2011 TfT Adaptive Tit For Tat CTfT Worse and Worse 3 Nice Average Copier FTfT EvolvedLookerUp2 2 2 Soft Joss Soft Grudger General Soft Grudger ShortMem Evolved FSM 16 Doubler Soft Go By Majority: 5 ZD-GTFT-2 ZD-GEN-2 Remorseful Prober Prober 2 Once Bitten **Revised Downing** GrudgerAlternator VeryBad Evolved FSM 4 Firm But Fair Slow Tit For Two Tats 2 **GTFT** Soft Go By Majority: 10 Soft Go By Majority: 20 Soft Go By Majority: 40 HTf2T Soft Go By Majority Eatherley Appeaser **WSLS** Math Constant Hunter Grofman Tf2T Slow Tit For Two Tats Grumpy Adaptive Worse and Worse 2 Sneaky Tit For Tat Stochastic Cooperator Stochastic WSLS **Gradual Killer** ZD-SET-2 ALLCorALLD **Eventual Cycle Hunter** Pun1 Meta Hunter Aggressive Defector Better and Better Nydegger Arrogant QLearner Cautious QLearner Hesitant QLearner Risky QLearner SelfSteem Average Copier Raider Random Hunter Cycle Hunter Random Aggravater ZD-Extort-4 **Defector Hunter** Calculator Alternator Hunter Cooperator Feld Worse and Worse Fool Me Forever EasyGo Desperate Tullock Cycler DDC ThueMorseInverse ThueMorse Alternator ZD-Extort-2 Cooperator Hunter ZD-Extort-2 v2 Cycler CCCDCD Cycler DC Cycler CCD AntiCycler Cycler CCCD Cycler CCCCCD Tricky Cooperator Prober 3 Negation Willing е π Bully Prober φ Anti Tit For Tat Joss Naive Prober 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 0.4 0.0 0.2 0.6 8.0 1.0