CollectiveStrategy Predator Handshake Winner21 Hard Prober Prober 4 Adaptive Fortress4 Fortress3 Ripoff Tester Prober 2 Gradual Killer: ('D', 'D' Worse and Worse 2 Stochastic WSLS: 0.05 Remorseful Prober: 0.1 ZD-GTFT-2: 0.25, 0.5 ZD-GEN-2: 0.125, 0.5, 3 Worse and Worse 3 Winner12 Win-Stay Lose-Shift: C VeryBad Two Tits For Tat Tit For Tat Tit For 2 Tats Thumper Spiteful Tit For Tat Soft Joss: 0.9 Soft Grudger Soft Go By Majority: 5 Soft Go By Majority: 40 Soft Go By Majority: 20 Soft Go By Majority: 10 Soft Go By Majority Slow Tit For Two Tats 2 Slow Tit For Two Tats Shubik ShortMem Revised Downing: True Retaliate: 0.1 Retaliate 3: 0.05 Retaliate 2: 0.08 Resurrection Random Hunter Punisher Pun1 PSO Gambler Mem1 PSO Gambler 2_2_2 Noise 0 PSO Gambler 2_2_2 PSO Gambler 1_1_1 Once Bitten Omega TFT: 3, 8 Nydegger Nice Average Copier Meta Hunter: 6 players Math Constant Hunter MEM2 Limited Retaliate: 0.1, 2 Limited Retaliate 3: 0.05 Limited Retaliate 2: 0.08 Level Punisher Inverse Punisher Inverse Hard Tit For Tat Hard Tit For 2 Tats Grumpy: Nice, 10, -10 GrudgerAlternator Grudger Grofman Gradual General Soft Grudger: n=1 GTFT: 0.33 Forgiving Tit For Tat Forgiver Forgetful Grudger Forgetful Fool Me Once: 0 Fool Me Once Firm But Fair EvolvedLookerUp2_2_2 EvolvedLookerUp1_1_1 Evolved HMM 5 Evolved FSM 4 Evolved FSM 16 Noise 05 Evolved FSM 16 Evolved ANN 5 Noise 05 **Evolved ANN 5 Evolved ANN Eventual Cycle Hunter** Eatherley Doubler **Defector Hunter** Davis: 10 Cycle Hunter Cooperator Contrite Tit For Tat Appeaser Alternator Hunter Adaptive Tit For Tat: 0.5 Adaptive Pavlov 2011 Adaptive Pavlov 2006 Risky QLearner Cautious QLearner Sneaky Tit For Tat Hesitant QLearner Arrogant QLearner ALLCorALLD Meta Hunter Aggressive: 7 EasyGo Defector Stochastic Cooperator Fool Me Forever Raider Cooperator Hunter ZD-SET-2: 0.25, 0.0, 2 FSM Player: [(0, 'C', 7, Random: 0.5 FSM Player: [(0, 'C', 0, Negation FSM Player: [(0, 'C', 13, Better and Better SelfSteem Desperate Aggravater Cycler CCCDCD AntiCycler Average Copier Willing Calculator Worse and Worse ZD-Extort-4: 0.2352941176 Bully Anti Tit For Tat Feld: 1.0, 0.5, 200 ThueMorseInverse Cycler CCD ThueMorse Alternator Tullock: 11 Cycler DC Cycler CCCD Cycler CCCCCD **Tricky Cooperator** Cycler DDC ZD-Extort-2 v2: 0.125, 0. ZD-Extort-2: 0.1111111111 Prober 3 φ Hopeless SolutionB5 Prober Hard Go By Majority: 10 Hard Go By Majority: 20 Win-Shift Lose-Stay: D Joss: 0.9 Naive Prober: 0.1 Hard Go By Majority: 40 Tricky Defector Hard Go By Majority Hard Go By Majority: 5 Suspicious Tit For Tat Opposite Grudger SolutionB1 0.0 0.2 0.4 0.6 8.0 1.0