SI Appendix

Figures show more traditional network layout diagrams for the 9 different network structures used in the experiments, color-coded by the preferred color of each vertex/subject. A visually more informative version of these networks is provided in Figure 2, but we include the layouts below for completeness. For each of the 9 networks, we provide two alternative layouts: the left layout emphasizes the common group incentives, while the right layout makes it easier to detect specific neighborhood structure.

Below is the text script of the sequence of events used for the experimental session, including a summary of the instructions given to the subjects.

TIME: 4:00 PM --- SET-UP

- * Karl from CETS will be onhand in case of problems
- * arrangement of terminals
- * placement of cardboard partitions
- * logon to all workstations, alert to any problems
- * playing of practice games
- * discussion of proctor roles/assignments

CETS EMERGENCY NUMBER: 8-5617

TIME: 5:45 --- SUBJECTS ARRIVE

- * as they arrive before 5:45, ask them to wait in the hall
- * remind them to use the bathroom
- * 5:45 --- start checking regular participants in, match them against the list
- * tell alternates to wait patiently
- * set them a few at a time from the hall; tell them to put all gear on the floor and sit quietly
- * tell them not to touch the computers

TIME: 6:00 --- BEGIN TRAINING SESSION

- * remind people of the expected time commitment (8-8:30, 9 worstcase)
- * remind them re: color-blindness
- * remind them re: request for Hillary/Barack preference
- * if no drop-outs, dismiss alternates
- * give verbal overview of experiments:
 - behavior: throughout, you should behave as if in a final exam
 - only interaction/comms through system
 - no talking or any other attempts at comms
 - no commenting, giggling, exclaiming
 - no looking around, or at others' screens
 - pay attention, sit quietly
 - if you have a question, raise your hand and

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wait for a proctor

- series of approximately 90 1-minute experiments
- in each, you control one vertex in 36-vertex NW
- you control the color of your vertex from 2 choices (small change to last series of exps)
- may change your color any time
- you will have only a local "first nbrhood" view
- see your own color, your neighbors' colors
- see edges to your neighbors and between them
- see info on your neighbors' degrees
- PAYOFFS: you will be paid REAL USD in accordance with COLLECTIVE PERFORMANCE/BEHAVIOR
- payment details given later via email
- collective "goal": converge to a GLOBAL CONSENSUS of color
- if this occurs, experiment is halted and EVERYONE will be paid SOME amount
- incentives are thus GLOBAL, not local
- if 1 minute arrives without global consensus, NOBODY is paid anything for that exp
- in each exp, you will have DIFFERENT payoffs for global consensus to each color
- SUM of these payoffs will be \$2 for each person; thus a successful exp will pay \$1 per person on AVG
- your payoffs may be DIFFERENT than other players'
- questions?

TIME: 6:30 --- BEGIN EXPERIMENTS

* run sequence of 81 1-minute "Cohesion" and "Minority Rules" experiments

TIME: AFTER THE ABOVE --- HILLARY & BARACK EXPERIMENTS

- * describe elicitation of their personal preference:
 - before beginning our final sequence of exps, we ask that in a moment you indicate your personal preference for the winner of the Democratic primary
 - this preference, like all other data collected tonight, will remain anonymous forever (IRB requirements)
 - collective behavior and anonymous individual behavior may be publicly reported in scientific or other pubs
 - may also report such findings to the popular media
- * run elicitation process on computers
- * describe coming experiments:
 - the remaining experiments are exactly as throughout the evening, except the choices have been changed from colors to Hillary Clinton and Barack Obama; and the payoffs for each person may no longer sum to \$2

^{*} run training experiments on computers, field questions

* run sequence of 1-minute H&B experiments

TIME: AFTER THE ABOVE --- EXIT SURVEY

- * run exit survey, encourage them to take time/be thoughtful
- * permit subjects to leave quietly as they complete survey

TIME: AFTER THE ABOVE --- TAKE-DOWN

- * BACKUP ALL EXPERIMENTAL DATA!!!
- * terminal log-off
- * take down partitions, etc.

Below is an internal team email detailing the naming scheme for the experiments and their data files.

From: J. Stephen Judd [sjudd@seas.upenn.edu] Sent: Thursday, May 08, 2008 11:34 AM To: Michael Kearns; Jenn Wortman; Jinsong Tan

Subject: gameBuild data

Attachments: gameBuild.data; ATT00472.txt

The attached file is used by a program to construct Objects that are the final unitary loadable thingamies that fully define a game. There are no further

parameters that go into these things at run time, so this is THE gameBuild document.

A game is defined on a single line.

There are two types of games being defined, VTR and DEM.

The VTR type is used for the Cohesion experiments and the CentralPower experiments.

(CentralPower has been also known in my head as Minority, Lightweight/ heavyweight,

and Ingroup/Outgroup. It's name hasn't settled down.)

The DEM game is for the final few games that try to measure political defection price.

VTR games start with the string "VTR".

Then is a string that will become part of the filename of the game. It has no significance

today except that we want to be able to interpret it later to know what's in there.

You will see that I have echoed some parameters in the name.

When {a,b,c} occur they reflect bias settings.

When {M,P,L} occur they reflect bias settings (think Mild, Pushy, Limbaugh).

{t1, t2, t3} reflect trial numbers.

Next comes the name of a GraphPack object which defines the graph, graphlets, node groupings, and all the layouts. The origins of these names

already reflect their generating definitions:

coPA is the 2 cohesion groups with PA distribution of edges.

coER is the 2 cohesion groups with ER distribution of edges.

Then comes " $_$ " and a number $\{.67, 1, 1.5\}$ indicating the relative number

of interedges to intraedges; higher numbers mean less group cohesion. sorry.

power is a PA[36,3] graph partitioned into groups by degree.

Then comes the size of the lightweight group,

followed by "t" and graph number, of which there are only 3.

Next comes the number of seconds in the game, after which no payoffs will be awarded.

Then come 4 numbers defining the payoffs (and therefore the biases). In all the VTR games, nodes are partitioned into 2 groups... the first two numbers here define group 1's payoffs for Red and Blue the last two numbers here define group 2's payoffs for Red and Blue The biases should always be of opposite polarity. Payoffs here and elsewhere are in US\$.

DEM games start with the string "DEM".

Then comes a file name.

Then comes a GraphPack name. This is always a single ER graph with density 0.3.

Then comes the game time in seconds.

Then comes 2 payoffs values; the first is for sticking, the second is for defecting.

The very first DEM game has no payoffs, and a crazy long game time.

The graph is

36 isolated nodes. Results from this poll are used in later DEM games.

Not all the DEM games will be run. We will start off with low

incentives to

defect and gradually raise them until everyone defects.

Using the naming schemes described above, the following is a complete list of the specifications for the 81 experiments.

```
// cohesion experiments
// first batch of 27 have ER generators
                            60 0.75 1.25 1.25 0.75
60 0.50 1.50 1.50 0.50
VTR 91coER_0.5a1 coER_0.5
                           60 0.75 1.25
VTR 61coER_0.5b1 coER_0.5
VTR 11coEr_0.5c1 coEr_0.5 60 0.75 1.25 1.50 0.50
VTR 21coER 0.5a2 coER 0.5 60 0.75 1.25
                                            1.25 0.75
VTR 31coER 0.5b2 coER 0.5
                            60 0.50 1.50
                                            1.50 0.50
VTR 81coER_0.5c2 coER_0.5
                            60 0.75 1.25
                                            1.50 0.50
                 coER_0.5
VTR 51coER 0.5a3
                            60 0.75 1.25
                                            1.25 0.75
VTR 71coER 0.5b3
                 coER 0.5
                           60 0.50 1.50
                                            1.50 0.50
VTR 41coER_0.5c3
                 coER_0.5
                            60 0.75 1.25
                                            1.50 0.50
```

```
60 0.75 1.25
                                                1.25 0.75
VTR 97coER_1a1
                   coER_1
                               60 0.50 1.50
                                                1.50 0.50
VTR 67coER_1b1
                   coER_1
                               60 0.75 1.25
                                                1.50 0.50
VTR 17coER_1c1
                   coER_1
                               60 0.75 1.25
                                                1.25 0.75
VTR 27coER 1a2
                   coER 1
VTR 37coER 1b2
                   coER 1
                               60 0.50 1.50
                                                1.50 0.50
VTR 87coER 1c2
                   coER 1
                               60 0.75 1.25
                                                1.50 0.50
VTR 57coER 1a3
                   coER 1
                               60 0.75 1.25
                                                1.25 0.75
                               60 0.50 1.50
VTR 77coER 1b3
                   coER 1
                                                1.50 0.50
VTR 47coER 1c3
                   coER 1
                               60 0.75 1.25
                                                1.50 0.50
VTR 94coER_2a1
                 coER_2
                           60 0.75 1.25
                                           1.25 0.75
VTR 64coER_2b1
                 coER_2
                           60
                               0.50 1.50
                                            1.50 0.50
VTR 14coER_2c1
                 coER_2
                           60
                               0.75 1.25
                                            1.50 0.50
VTR 24coER 2a2
                 coER_2
                          60 0.75 1.25
                                            1.25 0.75
VTR 34coER 2b2
                 coER 2
                           60 0.50 1.50
                                            1.50 0.50
VTR 84coER 2c2
                 coER 2
                           60
                               0.75 1.25
                                            1.50 0.50
VTR 54coER_2a3
                 coER_2
                           60 0.75 1.25
                                            1.25 0.75
VTR 74coER_2b3
                 coER_2
                           60 0.50 1.50
                                            1.50 0.50
VTR 44coER_2c3
                 coER_2
                           60 0.75 1.25
                                            1.50 0.50
// batch of 27 with PA generators
VTR 95coPA_0.5a1 coPA_0.5
                                 0.75 1.25
                                              1.25 0.75
                            60
VTR 65coPA 0.5b1
                  coPA_0.5
                             60
                                 0.50 1.50
                                              1.50 0.50
VTR 15coPA 0.5c1
                  coPA_0.5
                            60 0.75 1.25
                                              1.50 0.50
VTR 25coPA 0.5a2
                  coPA_0.5
                            60 0.75 1.25
                                             1.25 0.75
                            60 0.50 1.50
VTR 35coPA 0.5b2
                  coPA 0.5
                                             1.50 0.50
                  coPA_0.5
VTR 85coPA 0.5c2
                            60 0.75 1.25
                                             1.50 0.50
VTR 55coPA_0.5a3
                  coPA_0.5
                             60 0.75 1.25
                                              1.25 0.75
VTR 75coPA_0.5b3
                             60 0.50 1.50
                  coPA_0.5
                                              1.50 0.50
VTR 45coPA_0.5c3
                  coPA_0.5
                             60 0.75 1.25
                                              1.50 0.50
                               60 0.75 1.25
                                                1.25 0.75
VTR 98coPA_1a1
                  coPA_1
                               60 0.50 1.50
                                                1.50 0.50
VTR 68coPA_1b1
                   coPA_1
                               60 0.75 1.25
VTR 18coPA 1c1
                   coPA_1
                                                1.50 0.50
                               60 0.75 1.25
VTR 28coPA_1a2
                   coPA_1
                                                1.25 0.75
                               60 0.50 1.50
VTR 38coPA_1b2
                                                1.50 0.50
                   coPA 1
VTR 88coPA 1c2
                               60 0.75 1.25
                                                1.50 0.50
                   coPA 1
                               60 0.75 1.25
                                               1.25 0.75
VTR 58coPA_1a3
                   coPA_1
VTR 78coPA 1b3
                               60 0.50 1.50
                                               1.50 0.50
                   coPA_1
VTR 48coPA 1c3
                   coPA 1
                               60 0.75 1.25
                                               1.50 0.50
                           60 0.75 1.25
VTR 92coPA_2a1
                 coPA_2
                                            1.25 0.75
                           60 0.50 1.50
                                            1.50 0.50
VTR 62coPA 2b1
                 coPA 2
                 coPA_2
VTR 12coPA 2c1
                           60 0.75 1.25
                                            1.50 0.50
VTR 22coPA_2a2
                 coPA_2
                           60 0.75 1.25
                                            1.25 0.75
VTR 32coPA 2b2
                 coPA_2
                           60
                              0.50 1.50
                                            1.50 0.50
VTR 82coPA_2c2
                               0.75 1.25
                                            1.50 0.50
                 coPA_2
                           60
VTR 52coPA_2a3
                           60
                               0.75 1.25
                                            1.25 0.75
                 coPA_2
VTR 72coPA_2b3
                 coPA_2
                              0.50 1.50
                                            1.50 0.50
                           60
                           60 0.75 1.25
VTR 42coPA_2c3
                 coPA_2
                                            1.50 0.50
// lightweight power (oka minority power) games
// first 9 have 22 nodes in the lightweight group (small)
VTR 99power22t1M power22
                             60 0.75 1.25
                                               1.25 0.75
VTR 69power22t1P
                  power22
                              60 0.50 1.50
                                               1.50 0.50
                            60 0.75 1.25
                                               1.50 0.50
VTR 19power22t1L
                 power22
```

```
0.75 1.25
                                                  1.25 0.75
VTR 29power22t2M
                    power22
                                60
VTR 39power22t2P
                    power22
                                60
                                     0.50 1.50
                                                  1.50 0.50
VTR 89power22t2L
                    power22
                                60
                                     0.75 1.25
                                                  1.50 0.50
VTR 59power22t3M
                    power22
                                60 0.75 1.25
                                                  1.25 0.75
VTR 79power22t3P
                    power22
                                60 0.50 1.50
                                                  1.50 0.50
VTR 49power22t3L
                    power22
                                60
                                     0.75 1.25
                                                  1.50 0.50
// next 9 have 27 nodes in the lightweight group (critical)
                                                  1.25 0.75
VTR 93power27t1M
                    power27
                                60
                                     0.75 1.25
VTR 63power27t1P
                                     0.50 1.50
                                                  1.50 0.50
                    power27
                                60
VTR 13power27t1L
                    power27
                                60
                                     0.75 1.25
                                                  1.50 0.50
VTR 23power27t2M
                    power27
                                60
                                    0.75 1.25
                                                  1.25 0.75
VTR 33power27t2P
                                60 0.50 1.50
                                                  1.50 0.50
                    power27
VTR 83power27t2L
                    power27
                                60
                                    0.75 1.25
                                                  1.50 0.50
VTR 53power27t3M
                    power27
                                60
                                    0.75 1.25
                                                  1.25 0.75
VTR 73power27t3P
                                60
                                    0.50 1.50
                                                  1.50 0.50
                    power27
VTR 43power27t3L
                                     0.75 1.25
                                                  1.50 0.50
                    power27
                                60
// last 9 have 30 nodes in the lightweight group (large)
VTR 96power30t1M
                                60
                                     0.75 1.25
                                                  1.25 0.75
                    power30
                                    0.50 1.50
                                                  1.50 0.50
VTR 66power30t1P
                                60
                    power30
VTR 16power30t1L
                    power30
                                60
                                    0.75 1.25
                                                  1.50 0.50
VTR 26power30t2M
                    power30
                                60
                                     0.75 1.25
                                                  1.25 0.75
VTR 36power30t2P
                                60
                                    0.50 1.50
                                                  1.50 0.50
                    power30
                                    0.75 1.25
VTR 86power30t2L
                    power30
                                60
                                                  1.50 0.50
VTR 56power30t3M
                                60
                                    0.75 1.25
                                                  1.25 0.75
                    power30
                                60 0.50 1.50
                    power30
                                                  1.50 0.50
VTR 76power30t3P
VTR 46power30t3L
                    power30
                                60
                                    0.75 1.25
                                                  1.50 0.50
// Democratic Primary games
// The first one just polls; it MUST BE RUN BEFORE any other DEM games!
DEM -poll36
                  36nodes
                              500 0 0
// The following games increase temptations to defect
                              50
                                  1 1
DEM tempt1.00
                  ER.3
DEM tempt1.10
                              50
                                  1 1.10
                  ER.3
DEM tempt1.20
                  ER.3
                              50
                                  1 1.20
DEM tempt1.50
                  ER.3
                              50
                                  1 1.50
                              50
                                  1 2
DEM tempt2
                  ER.3
                                  1 5
DEM tempt5
                  ER.3
                              50
                              50
                                  1 10
DEM tempt10
                  ER.3
                              50 1 20
DEM tempt20
                  ER.3
                              50 1 30
DEM tempt30
                  ER.3
                              50 1 40
DEM tempt40
                  ER.3
                              50
                                  1 50
DEM tempt50
                  ER.3
```

Using the naming schemes described above, below is the list of 81 experiments in the precise order they were held in the session.

```
demo.game

VTR-11coER_0.5c1.game

VTR-12coPA_2c1.game

VTR-13power27t1L.game

VTR-14coER_2c1.game

VTR-15coPA_0.5c1.game

VTR-16power30t1L.game

VTR-17coER_1c1.game

VTR-18coPA_1c1.game

VTR-19power22t1L.game
```

```
VTR-21coER_0.5a2.game
```

- VTR-22coPA_2a2.game
- VTR-23power27t2M.game
- VTR-24coER_2a2.game
- VTR-25coPA 0.5a2.game
- VTR-26power30t2M.game
- VTR-27coER_1a2.game
- VTR-28coPA_1a2.game
- VTR-29power22t2M.game
- VTR-31coER_0.5b2.game
- VTR-32coPA_2b2.game
- VTR-33power27t2P.game
- VTR-34coER_2b2.game
- VTR-35coPA_0.5b2.game
- VTR-36power30t2P.game
- VTR-37coER_1b2.game
- VTR-38coPA_1b2.game
- VTR-39power22t2P.game
- VTR-41coER_0.5c3.game
- VTR-42coPA_2c3.game
- VTR-43power27t3L.game
- VTR-44coER_2c3.game
- VTR-45coPA_0.5c3.game
- VTR-46power30t3L.game
- VTR-47coER_1c3.game
- VTR-48coPA_1c3.game
- VTR-49power22t3L.game
- VTR-51coER_0.5a3.game
- VTR-52coPA_2a3.game
- VTR-53power27t3M.game
- VTR-54coER_2a3.game
- VTR-55coPA_0.5a3.game
- VTR-56power30t3M.game
- VTR-57coER 1a3.game
- VTR-58coPA_1a3.game
- VTR-59power22t3M.game
- VTR-61coER_0.5b1.game
- VTR-62coPA_2b1.game
- VTR-63power27t1P.game
- VTR-64coER_2b1.game
- VTR-65coPA_0.5b1.game
- VTR-66power30t1P.game
- VTR-67coER_1b1.game
- VTR-68coPA_1b1.game
- VTR-69power22t1P.game
- VTR-71coER_0.5b3.game
- VTR-72coPA 2b3.game
- VTR-73power27t3P.game
- VTR-74coER 2b3.game
- VTR-75coPA_0.5b3.game
- VTR-76power30t3P.game

```
VTR-77coER_1b3.game
VTR-78coPA_1b3.game
VTR-79power22t3P.game
VTR-81coER 0.5c2.game
VTR-82coPA 2c2.game
VTR-83power27t2L.game
VTR-84coER_2c2.game
VTR-85coPA_0.5c2.game
VTR-86power30t2L.game
VTR-87coER_1c2.game
VTR-88coPA_1c2.game
VTR-89power22t2L.game
VTR-91coER_0.5a1.game
VTR-92coPA_2a1.game
VTR-93power27t1M.game
VTR-94coER_2a1.game
VTR-95coPA_0.5a1.game
VTR-96power30t1M.game
VTR-97coER_1a1.game
VTR-98coPA_1a1.game
VTR-99power22t1M.game
DEM--poll36.game
DEM-tempt1.00.game
DEM-tempt1.10.game
DEM-tempt1.20.game
DEM-tempt1.50.game
DEM-tempt2.game
DEM-tempt5.game
DEM-tempt10.game
DEM-tempt20.game
DEM-tempt30.game
DEM-tempt40.game
DEM-tempt50.game
CLR-1pair.game
CNS-1pair.game
DEM--poll2.game
DEM--poll6.game
DEM-2tempt2.game
DEM-2tempt3.game
VTR-test6.game
VTR-1pair.game
```

Below is sample raw data for a single experiment. The first line indicates a mapping of human subject ID numbers to vertices in the network used; the second line indicates the degree of each vertex. Subsequent lines are 4-tuples indicating a millisecond-scale timestamp, subject ID, vertex index, and a color value (1 or 2), indicating that a particular subject chose that color at that time. The final line indicates the payoffs to each subject.

Raw data for exp105-VTR-14coER_2c1.data:

clid 1028 1036 1034 1005 1020 1012 1010 1007 1011 1008 1009 1026 1024 1014 1027 1029 1032 1035 1001 1021 1019 1004 1002 1017 1033 10

```
03\ 1022\ 1013\ 1031\ 1018\ 1015\ 1006\ 1023\ 1016\ 1025\ 1030
degr 3 4 6 9 5 4 3 6 10 8 4 6 6 5 8 6 3 4 12 3 6 6 5 5 3 5 6 6 5 6 4 8 6 4 6 4
17 1011 n9 1
27 1028 n1 1
40 1027 n15 1
42 1021 n20 2
84 1033 n25 2
88 1026 n12 1
97 1036 n2 1
104 1003 n26 2
156 1015 n31 2
159 1031 n29 2
160 1025 n35 2
176 1027 n15 1
183 1010 n7 1
185 1011 n9 1
200 1009 n11 1
226 1021 n20 2
333 1022 n27 2
352 1027 n15 1
361 1011 n9 1
362 1035 n18 2
401 1030 n36 2
405 1006 n32 2
426 1021 n20 2
434 1032 n17 1
448 1003 n26 2
529 1015 n31 2
536 1016 n34 2
546 1032 n17 1
621 1019 n21 2
632 1003 n26 2
633 1023 n33 2
650 1008 n10 1
674 1021 n20 2
709 1029 n16 1
716 1001 n19 2
726 1004 n22 2
763 1013 n28 2
773 1018 n30 2
810 1017 n24 2
868 1002 n23 2
874 1021 n20 2
876 1005 n4 1
894 1014 n14 1
1032 1003 n26 2
1058 1012 n6 1
1066 1021 n20 2
1243 1024 n13 1
1272 1003 n26 2
1326 1034 n3 1
1734 1020 n5 1
1962 1007 n8 1
2709 1029 n16 2
3034 1017 n24 1
3641 1030 n36 1
```

- 3837 1018 n30 1
- 5422 1020 n5 2
- 5674 1021 n20 1
- 6362 1032 n17 2
- 7357 1013 n28 1
- 7691 1013 n28 2
- 8233 1030 n36 2
- 8302 1024 n13 2
- 8530 1017 n24 2
- 8729 1028 n1 2
- 9702 1018 n30 2
- 9996 1030 n36 1
- 10532 1004 n22 1
- 10537 1036 n2 2
- 11234 1032 n17 1
- 12198 1034 n3 2
- 12765 1018 n30 1
- 13023 1029 n16 1
- 14841 1033 n25 1
- 15183 1031 n29 1
- 16405 1018 n30 1
- 17002 1030 n36 2
- 17717 1023 n33 1
- 17924 1015 n31 1
- 17985 1030 n36 1
- 18024 1023 n33 2
- 18265 1003 n26 1
- 18433 1023 n33 1
- 18571 1012 n6 2
- 18664 1034 n3 1
- 18717 1033 n25 2
- 18730 1023 n33 2
- 19046 1013 n28 1
- 19051 1023 n33 1
- 19120 1006 n32 1
- 19138 1025 n35 1
- 19369 1023 n33 2
- 19816 1012 n6 1
- 19831 1006 n32 2
- 20043 1013 n28 2
- 20146 1028 n1 1
- 21569 1020 n5 1
- 23053 1033 n25 1 23725 1033 n25 2
- 23910 1004 n22 2
- 24087 1003 n26 2
- 24967 1019 n21 1
- 25031 1003 n26 1
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