Very unfortunately, the dataset that I used to generate the results reported in the following article:

Neumayer, Eric. 2008. Distance, Power and Ideology: Diplomatic Representation in a World of Nation-States, *Area*, 40 (2), pp. 228-236

contained several errors. The dataset posted here corrects these errors. As a result, there are a number of (fortunately on the whole minor changes) to the results reported in the article. Here's a summary of the main changes to the reported results followed by a log-file of the results with the corrected dataset:

Eric Neumayer

Summary of main changes to results:

Variables of main interest:

- The published article reports that the positive effect of ideological affinity on the likelihood of diplomatic representation of the sending in the recipient country decreases as the power of either recipient or sending country increases. In the corrected dataset, the positive effect of ideological affinity first increases and then decreases as the power of either recipient or sending country increases.

Control variables:

- The published article reports that the positive effect of GDP p.c. in recipient and sending countries are not statistically significantly different. In the corrected dataset, the effect of GDP p.c. in the recipient country is stronger than that of the sending country.
- The published article reports that former colonial ties do not have a statistically significant effect. In the corrected dataset, such former colonial ties have a negative effect on diplomatic representation.

Robustness tests:

- The published article reports that pairs of autocracies are more likely to have diplomatic representation. In the corrected dataset, they are not more likely.
- The published article reports a non-linear effect of the year of independence of the sending country. In the corrected dataset, the effect of the year of independence is positive at first (for countries having been independent for a long time) and then turns negative (such that newly independent states are less likely to establish diplomatic representation).

Log-file of the results with the corrected dataset:

```
-------------------------------------------------------------------------------------------------------
-
      name:  <unnamed>
       log:  C:\Research\Conflict\COW\Article for Area (dipl representation).log
  log type:  text
 opened on:  25 Sep 2011, 20:01:52


. do "C:\Research\Conflict\COW\Article for Area (dipl representation).do"

. version 11

. set matsize 1000

. tsset dyadid yearid
       panel variable:  dyadid (strongly balanced)
        time variable:  yearid, 1 to 8
```

```
               delta:  1 unit

.
. * Table 1
. quietly xi: logit  dr_at_recipient_dum  lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni
> #c.powerpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
> dr_at_sender_dum  if  samedyad==0,

. su dr_at_recipient_dum lndistance powerpc_recipient powerpc_sender    s3uni  lngdppc_recipient
lngdpp
> c_sender   c.s3uni#c.powerpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender
w
> estandruscoldummy dr_at_sender_dum  bilattradegdp_sender independence_sender demdem autocautoc  if
e(s
> ample)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
dr_at_reci~m |    133953    .3290781    .4698802          0          1
  lndistance |    133953    8.660738     .765104   4.308874   9.895805
powerpc_re~t |    133953   -.0902882    1.018014  -2.294384   4.898831
powerpc_se~r |    133953   -.0892789    1.019648  -2.294384   4.898831
       s3uni |    133953    .6597967    .2904011         -1          1
-------------+--------------------------------------------------------
lngdppc_re~t |    133953    7.971586    1.092886   5.384495   10.46874
lngdppc_se~r |    133953    7.972003    1.092881   5.384495   10.46874
             |
     c.s3uni#|
          c. |
powerpc_re~t |    133953   -.1325102    .6704232  -4.692826   4.387013
             |
     c.s3uni#|
          c. |
powerpc_se~r |    133953   -.1323305    .6709116  -4.692826   4.387013
             |
lngdppc_re~t |    133953    7.971586    1.092886   5.384495   10.46874
-------------+--------------------------------------------------------
lngdppc_se~r |    133953    7.972003    1.092881   5.384495   10.46874
westandrus~y |    133953    .5842198    .4928578          0          1
dr_at_send~m |    133953    .3289437    .4698312          0          1
bilattrade~r |    133953    .0022145    .0146289          0   1.158369
independen~r |    133953    1933.644    48.08667       1816       1993
-------------+--------------------------------------------------------
      demdem |    124922    .1760619    .3808743          0          1
  autocautoc |    124922      .36863    .4824353          0          1

.
.
. * Table 2
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
i.year
>  if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

Iteration 0:   log pseudolikelihood = -84862.419
Iteration 1:   log pseudolikelihood = -54517.107
Iteration 2:   log pseudolikelihood = -53481.871
Iteration 3:   log pseudolikelihood = -53477.042
Iteration 4:   log pseudolikelihood = -53477.041

Logistic regression                               Number of obs   =     133953
                                                  Wald chi2(16)   =    8309.02
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -53477.041                 Pseudo R2       =     0.3698

                                          (Std. Err. adjusted for 24163 clusters in dyadid)
------------------------------------------------------------------------------------------
                         |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
----------------------------+-------------------------------------------------------------
                lndistance |   -1.24964   .0240028   -52.06   0.000    -1.296684   -1.202595
```

```
          powerpc_recipient |   1.176947   .0540871    21.76   0.000     1.070938    1.282955
             powerpc_sender |   1.195194   .0538193    22.21   0.000      1.08971    1.300677
                      s3uni |   .3776073   .0560946     6.73   0.000     .2676638    .4875508
                            |
c.s3uni#c.powerpc_recipient |  -.0064314   .0718986    -0.09   0.929    -.1473501    .1344873
                            |
   c.s3uni#c.powerpc_sender |   .1814949    .072024     2.52   0.012     .0403304    .3226594
                            |
          lngdppc_recipient |   .2320047   .0169755    13.67   0.000     .1987334     .265276
             lngdppc_sender |   .1134973   .0175495     6.47   0.000     .0791009    .1478938
         westandruscoldummy |  -.4224786   .0358855   -11.77   0.000    -.4928129   -.3521444
                _Iyear_1975 |   .4149032   .0258485    16.05   0.000     .3642411    .4655653
                _Iyear_1980 |   .7159856   .0285267    25.10   0.000     .6600743    .7718968
                _Iyear_1985 |  -.2493797   .0293851    -8.49   0.000    -.3069735   -.1917859
                _Iyear_1990 |  -.2852022   .0309825    -9.21   0.000    -.3459269   -.2244776
                _Iyear_1995 |  -.7961009   .0316612   -25.14   0.000    -.8581556   -.7340462
                _Iyear_2000 |    -.92065   .0330641   -27.84   0.000    -.9854545   -.8558455
                _Iyear_2005 |  -1.291742   .0875186   -14.76   0.000    -1.463276   -1.120209
                      _cons |   7.504731       .298    25.18   0.000     6.920662      8.0888
------------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum

              -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     28255          7701  |      35956
     -     |     15826         82171  |      97997
-----------+--------------------------+-----------
   Total   |     44081         89872  |     133953

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   64.10%
Specificity                     Pr( -|~D)   91.43%
Positive predictive value       Pr( D| +)   78.58%
Negative predictive value       Pr(~D| -)   83.85%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    8.57%
False - rate for true D         Pr( -| D)   35.90%
False + rate for classified +   Pr(~D| +)   21.42%
False - rate for classified -   Pr( D| -)   16.15%
--------------------------------------------------
Correctly classified                        82.44%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -1.2
```

```
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

3._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =         -.2
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =          .8
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =         1.8
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

6._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =         2.8
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

7._at           : lndistance    =    8.660738 (mean)
```

```
               powerpc_re~t    =         3.8
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

8._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =         4.8
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0107577   .0050189     2.14   0.032      .000921    .0205945
          2  |   .0300699   .0089404     3.36   0.001     .0125469    .0475928
          3  |   .0663346   .0111467     5.95   0.000     .0444875    .0881817
          4  |   .0890504   .0185394     4.80   0.000     .0527139    .1253869
          5  |   .0623004   .0235639     2.64   0.008      .016116    .1084849
          6  |   .0268322   .0156556     1.71   0.087    -.0038522    .0575165
          7  |   .0092036   .0074017     1.24   0.214    -.0053034    .0237107
          8  |   .0029076   .0030125     0.97   0.334    -.0029968     .008812
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
```

```
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

3._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =   -.0902882 (mean)
                powerpc_se~r    =         -.2
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =   -.0902882 (mean)
                powerpc_se~r    =          .8
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =   -.0902882 (mean)
                powerpc_se~r    =         1.8
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

6._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =   -.0902882 (mean)
                powerpc_se~r    =         2.8
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

7._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =   -.0902882 (mean)
                powerpc_se~r    =         3.8
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
```

```
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

8._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         4.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |  -.0004541   .0038335    -0.12   0.906    -.0079676    .0070594
          2  |   .0114429   .0079554     1.44   0.150    -.0041494    .0270351
          3  |   .0619808   .0110821     5.59   0.000     .0402603    .0837013
          4  |   .1301072    .018195     7.15   0.000     .0944456    .1657688
          5  |   .1074395   .0199537     5.38   0.000      .068331     .146548
          6  |   .0487331   .0111387     4.38   0.000     .0269016    .0705647
          7  |   .0172016   .0045331     3.79   0.000      .008317    .0260862
          8  |   .0055468   .0016222     3.42   0.001     .0023674    .0087262
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990 _Iyear_1995
               _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
                   |            Delta-method
                   |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------+----------------------------------------------------------------
        lndistance |  -.2435535   .0048928   -49.78   0.000    -.2531433   -.2339638
 powerpc_recipient |   .2285587   .0047955    47.66   0.000     .2191596    .2379577
    powerpc_sender |   .2562811   .0052475    48.84   0.000     .2459963    .2665659
             s3uni |   .0705504   .0113977     6.19   0.000     .0482113    .0928894
 lngdppc_recipient |   .0452175   .0032738    13.81   0.000     .0388009     .051634
```

```
    lngdppc_sender |   .0221205   .0034121     6.48   0.000      .015433    .0288081
westandruscoldummy |  -.0823407   .0069673   -11.82   0.000    -.0959963    -.068685
       _Iyear_1975 |   .0808642   .0050894    15.89   0.000     .0708891    .0908393
       _Iyear_1980 |   .1395449   .0056698    24.61   0.000     .1284323    .1506574
       _Iyear_1985 |  -.0486038   .0056581    -8.59   0.000    -.0596935   -.0375142
       _Iyear_1990 |  -.0555856   .0059612    -9.32   0.000    -.0672694   -.0439019
       _Iyear_1995 |  -.1551593     .00606   -25.60   0.000    -.1670366   -.1432819
       _Iyear_2000 |  -.1794337   .0063713   -28.16   0.000    -.1919212   -.1669463
       _Iyear_2005 |  -.2517593   .0171537   -14.68   0.000    -.2853798   -.2181387
------------------------------------------------------------------------------

.
.
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
dr_at_
> sender_dum  i.year if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

Iteration 0:   log pseudolikelihood = -84862.419
Iteration 1:   log pseudolikelihood =  -43506.81
Iteration 2:   log pseudolikelihood = -41116.894
Iteration 3:   log pseudolikelihood = -41000.456
Iteration 4:   log pseudolikelihood = -41000.063
Iteration 5:   log pseudolikelihood = -41000.063

Logistic regression                               Number of obs   =     133953
                                                  Wald chi2(17)   =   20579.66
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -41000.063                 Pseudo R2       =     0.5169

                                        (Std. Err. adjusted for 24163 clusters in dyadid)
------------------------------------------------------------------------------------------
                           |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------------------+--------------------------------------------------------------
                lndistance |  -.8168406    .023162   -35.27   0.000    -.8622374   -.7714438
          powerpc_recipient |   .6436045   .0338498    19.01   0.000     .5772601    .7099489
             powerpc_sender |   .7462046   .0345973    21.57   0.000     .6783951    .8140142
                      s3uni |   .2426203   .0549622     4.41   0.000     .1348963    .3503443
                            |
c.s3uni#c.powerpc_recipient |  -.0399292   .0452778    -0.88   0.378     -.128672    .0488136
                            |
   c.s3uni#c.powerpc_sender |   .3128501   .0462382     6.77   0.000     .2222249    .4034752
                            |
          lngdppc_recipient |   .1763105   .0180176     9.79   0.000     .1409966    .2116243
             lngdppc_sender |   .0434245   .0188312     2.31   0.021     .0065159    .0803331
         westandruscoldummy |  -.3711394   .0381747    -9.72   0.000    -.4459605   -.2963183
           dr_at_sender_dum |   2.828769   .0310513    91.10   0.000      2.76791    2.889628
                _Iyear_1975 |   .2858179   .0341021     8.38   0.000      .218979    .3526568
                _Iyear_1980 |   .4965272   .0375236    13.23   0.000     .4229822    .5700721
                _Iyear_1985 |  -.1217223   .0373889    -3.26   0.001    -.1950033   -.0484414
                _Iyear_1990 |  -.1346721   .0385441    -3.49   0.000    -.2102172    -.059127
                _Iyear_1995 |  -.4636652   .0383281   -12.10   0.000    -.5387869   -.3885435
                _Iyear_2000 |  -.5479985    .039651   -13.82   0.000     -.625713    -.470284
                _Iyear_2005 |  -.7590784   .1058953    -7.17   0.000    -.9666295   -.5515273
                      _cons |   3.539788   .3117743    11.35   0.000     2.928721    4.150854
------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum

             -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     35485          7826  |      43311
     -     |      8596         82046  |      90642
-----------+--------------------------+-----------
   Total   |     44081         89872  |     133953

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
```

```
-------------------------------------------------
Sensitivity                     Pr( +| D)   80.50%
Specificity                     Pr( -|~D)   91.29%
Positive predictive value       Pr( D| +)   81.93%
Negative predictive value       Pr(~D| -)   90.52%
-------------------------------------------------
False + rate for true ~D        Pr( +|~D)    8.71%
False - rate for true D         Pr( -| D)   19.50%
False + rate for classified +   Pr(~D| +)   18.07%
False - rate for classified -   Pr( D| -)    9.48%
-------------------------------------------------
Correctly classified                        87.74%
-------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -1.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

3._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =         -.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

4._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =          .8
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
```

```
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                dr_at_send~m    =    .3289437 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =         1.8
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  dr_at_send~m  =    .3289437 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

6._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =         2.8
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  dr_at_send~m  =    .3289437 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

7._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =         3.8
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  dr_at_send~m  =    .3289437 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

8._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =         4.8
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  dr_at_send~m  =    .3289437 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
```

```
              _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0218112   .0090241     2.42   0.016     .0041243     .039498
          2  |   .0308411   .0100792     3.06   0.002     .0110861     .050596
          3  |   .0389227   .0102129     3.81   0.000     .0189058    .0589397
          4  |   .0416236   .0136872     3.04   0.002     .0147971    .0684501
          5  |   .0357042   .0221196     1.61   0.106    -.0076495    .0790579
          6  |   .0234044   .0288289     0.81   0.417    -.0330993    .0799081
          7  |    .010979   .0293931     0.37   0.709    -.0466304    .0685883
          8  |   .0026962   .0248402     0.11   0.914    -.0459897    .0513821
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

3._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         -.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)
```

```
4._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =          .8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

5._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =          1.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

6._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =          2.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

7._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =          3.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

8._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =          4.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
```

```
              _Iyear_1985     =    .1343904 (mean)
              _Iyear_1990     =    .1346368 (mean)
              _Iyear_1995     =    .1772562 (mean)
              _Iyear_2000     =    .1773906 (mean)
              _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |  -.0170165   .0048844    -3.48   0.000    -.0265896   -.0074433
          2  |  -.0113918   .0077077    -1.48   0.139    -.0264987    .0037151
          3  |   .0314365   .0100285     3.13   0.002     .0117811     .051092
          4  |   .1210499   .0146244     8.28   0.000     .0923867    .1497132
          5  |   .1832316   .0194604     9.42   0.000     .1450899    .2213734
          6  |   .1581225   .0174029     9.09   0.000     .1240134    .1922317
          7  |   .0972056   .0120597     8.06   0.000      .073569    .1208423
          8  |   .0500627    .007146     7.01   0.000     .0360568    .0640686
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy dr_at_sender_dum _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990
               _Iyear_1995 _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               dr_at_send~m    =    .3289437 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
                   |            Delta-method
                   |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------+----------------------------------------------------------------
        lndistance |  -.1480632   .0043207   -34.27   0.000    -.1565316   -.1395948
 powerpc_recipient |   .1118865   .0040536    27.60   0.000     .1039416    .1198313
    powerpc_sender |   .1726754   .0046791    36.90   0.000     .1635045    .1818463
             s3uni |   .0395688   .0103114     3.84   0.000     .0193589    .0597787
 lngdppc_recipient |   .0319586   .0032398     9.86   0.000     .0256088    .0383084
    lngdppc_sender |   .0078713   .0034116     2.31   0.021     .0011847    .0145578
westandruscoldummy |  -.0672739   .0068929    -9.76   0.000    -.0807838   -.0537641
  dr_at_sender_dum |    .512752   .0066465    77.15   0.000     .4997251    .5257788
       _Iyear_1975 |   .0518083   .0061939     8.36   0.000     .0396685    .0639481
       _Iyear_1980 |   .0900021   .0068519    13.14   0.000     .0765726    .1034317
       _Iyear_1985 |  -.0220638   .0067525    -3.27   0.001    -.0352984   -.0088292
       _Iyear_1990 |  -.0244111   .0069571    -3.51   0.000    -.0380468   -.0107754
       _Iyear_1995 |  -.0840455   .0069051   -12.17   0.000    -.0975793   -.0705117
       _Iyear_2000 |   -.099332   .0071584   -13.88   0.000    -.1133623   -.0853018
       _Iyear_2005 |   -.137593   .0192579    -7.14   0.000    -.1753378   -.0998483
------------------------------------------------------------------------------

.
. ** Robustness tests
. * LDV
. capture drop ldr_at_recipient_dum

. gen ldr_at_recipient_dum=l.dr_at_recipient_dum
```

```
(163836 missing values generated)

. xi: logit  dr_at_recipient_dum  ldr_at_recipient_dum  lndistance powerpc_recipient powerpc_sender
s
> 3uni   c.s3uni#c.powerpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender
westa
> ndruscoldummy  i.year if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

note: _Iyear_2005 omitted because of collinearity
Iteration 0:   log pseudolikelihood = -71396.715
Iteration 1:   log pseudolikelihood = -27492.298
Iteration 2:   log pseudolikelihood = -24720.346
Iteration 3:   log pseudolikelihood = -24467.116
Iteration 4:   log pseudolikelihood = -24466.249
Iteration 5:   log pseudolikelihood = -24466.248

Logistic regression                               Number of obs   =     110085
                                                  Wald chi2(16)   =   24135.26
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -24466.248                 Pseudo R2       =     0.6573

                                          (Std. Err. adjusted for 24115 clusters in dyadid)
------------------------------------------------------------------------------------------
                          |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
----------------------------+-------------------------------------------------------------
       ldr_at_recipient_dum |    4.65065    .039307   118.32   0.000     4.573609     4.72769
                 lndistance |   -.913269   .0230731   -39.58   0.000    -.9584915   -.8680465
           powerpc_recipient |   .7802654   .0395821    19.71   0.000     .7026859    .8578448
              powerpc_sender |   .7715805    .037238    20.72   0.000     .6985953    .8445656
                       s3uni |   .5800938     .05572    10.41   0.000     .4708847     .689303
                             |
c.s3uni#c.powerpc_recipient |   .0296414   .0517122     0.57   0.567    -.0717127    .1309954
                             |
   c.s3uni#c.powerpc_sender |   .1779749   .0480495     3.70   0.000     .0837997    .2721501
                             |
            lngdppc_recipient |   .1657659   .0134025    12.37   0.000     .1394974    .1920344
               lngdppc_sender |   .1633053    .014396    11.34   0.000     .1350896    .1915209
          westandruscoldummy |  -.0973555   .0292006    -3.33   0.001    -.1545876   -.0401233
                 _Iyear_1975 |   1.857042   .1287494    14.42   0.000     1.604698    2.109386
                 _Iyear_1980 |   1.562619   .1291723    12.10   0.000     1.309446    1.815792
                 _Iyear_1985 |  -1.337229   .1307794   -10.23   0.000    -1.593552   -1.080906
                 _Iyear_1990 |   .1956048   .1272483     1.54   0.124    -.0537973    .4450069
                 _Iyear_1995 |  -.0343619   .1273706    -0.27   0.787    -.2840037    .2152799
                 _Iyear_2000 |  -.2761074   .1258139    -2.19   0.028    -.5226981   -.0295166
                 _Iyear_2005 |          0  (omitted)
                       _cons |   2.129735   .2818086     7.56   0.000       1.5774     2.68207
------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum

              -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     33285          3620  |      36905
     -     |      5444         67736  |      73180
-----------+--------------------------+-----------
   Total   |     38729         71356  |     110085

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   85.94%
Specificity                     Pr( -|~D)   94.93%
Positive predictive value       Pr( D| +)   90.19%
Negative predictive value       Pr(~D| -)   92.56%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    5.07%
False - rate for true D         Pr( -| D)   14.06%
False + rate for classified +   Pr(~D| +)    9.81%
False - rate for classified -   Pr( D| -)    7.44%
```

```
-------------------------------------------------
Correctly classified                       91.77%
-------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     110085
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0530243 (mean)
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

2._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =        -1.2
               powerpc_se~r    =   -.0530243 (mean)
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

3._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =         -.2
               powerpc_se~r    =   -.0530243 (mean)
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

4._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =           .8
               powerpc_se~r    =   -.0530243 (mean)
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
```

```
               _Iyear_2005     =    .0070945 (mean)

5._at          : ldr_at_rec~m    =    .3375846 (mean)
                 lndistance      =    8.668283 (mean)
                 powerpc_re~t    =         1.8
                 powerpc_se~r    =   -.0530243 (mean)
                 s3uni           =    .6837273 (mean)
                 lngdppc_re~t    =    7.995519 (mean)
                 lngdppc_se~r    =    7.995751 (mean)
                 westandrus~y    =    .5776536 (mean)
                 _Iyear_1975     =    .1300268 (mean)
                 _Iyear_1980     =     .158632 (mean)
                 _Iyear_1985     =    .1635282 (mean)
                 _Iyear_1990     =    .1613935 (mean)
                 _Iyear_1995     =    .1634737 (mean)
                 _Iyear_2000     =    .2158514 (mean)
                 _Iyear_2005     =    .0070945 (mean)

6._at          : ldr_at_rec~m    =    .3375846 (mean)
                 lndistance      =    8.668283 (mean)
                 powerpc_re~t    =         2.8
                 powerpc_se~r    =   -.0530243 (mean)
                 s3uni           =    .6837273 (mean)
                 lngdppc_re~t    =    7.995519 (mean)
                 lngdppc_se~r    =    7.995751 (mean)
                 westandrus~y    =    .5776536 (mean)
                 _Iyear_1975     =    .1300268 (mean)
                 _Iyear_1980     =     .158632 (mean)
                 _Iyear_1985     =    .1635282 (mean)
                 _Iyear_1990     =    .1613935 (mean)
                 _Iyear_1995     =    .1634737 (mean)
                 _Iyear_2000     =    .2158514 (mean)
                 _Iyear_2005     =    .0070945 (mean)

7._at          : ldr_at_rec~m    =    .3375846 (mean)
                 lndistance      =    8.668283 (mean)
                 powerpc_re~t    =         3.8
                 powerpc_se~r    =   -.0530243 (mean)
                 s3uni           =    .6837273 (mean)
                 lngdppc_re~t    =    7.995519 (mean)
                 lngdppc_se~r    =    7.995751 (mean)
                 westandrus~y    =    .5776536 (mean)
                 _Iyear_1975     =    .1300268 (mean)
                 _Iyear_1980     =     .158632 (mean)
                 _Iyear_1985     =    .1635282 (mean)
                 _Iyear_1990     =    .1613935 (mean)
                 _Iyear_1995     =    .1634737 (mean)
                 _Iyear_2000     =    .2158514 (mean)
                 _Iyear_2005     =    .0070945 (mean)

8._at          : ldr_at_rec~m    =    .3375846 (mean)
                 lndistance      =    8.668283 (mean)
                 powerpc_re~t    =         4.8
                 powerpc_se~r    =   -.0530243 (mean)
                 s3uni           =    .6837273 (mean)
                 lngdppc_re~t    =    7.995519 (mean)
                 lngdppc_se~r    =    7.995751 (mean)
                 westandrus~y    =    .5776536 (mean)
                 _Iyear_1975     =    .1300268 (mean)
                 _Iyear_1980     =     .158632 (mean)
                 _Iyear_1985     =    .1635282 (mean)
                 _Iyear_1990     =    .1613935 (mean)
                 _Iyear_1995     =    .1634737 (mean)
                 _Iyear_2000     =    .2158514 (mean)
                 _Iyear_2005     =    .0070945 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0269111   .0074092     3.63   0.000     .0123893     .041433
          2  |     .05549   .0096572     5.75   0.000     .0365621    .0744178
```

```
          3  |   .0996155   .0104943     9.49   0.000     .0790471    .1201839
          4  |   .1423697   .0146332     9.73   0.000     .1136892    .1710502
          5  |   .1503507    .022832     6.59   0.000     .1056008    .1951007
          6  |   .1171597   .0250303     4.68   0.000     .0681011    .1662182
          7  |   .0724842   .0200706     3.61   0.000     .0331465    .1118219
          8  |   .0389719   .0131746     2.96   0.003     .0131501    .0647937
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                       Number of obs   =     110085
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =    -.054101 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

2._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =    -.054101 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

3._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =    -.054101 (mean)
               powerpc_se~r    =         -.2
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

4._at        : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =    -.054101 (mean)
               powerpc_se~r    =          .8
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
```

```
                _Iyear_1985     =    .1635282 (mean)
                _Iyear_1990     =    .1613935 (mean)
                _Iyear_1995     =    .1634737 (mean)
                _Iyear_2000     =    .2158514 (mean)
                _Iyear_2005     =    .0070945 (mean)

5._at           : ldr_at_rec~m    =    .3375846 (mean)
                  lndistance      =    8.668283 (mean)
                  powerpc_re~t    =    -.054101 (mean)
                  powerpc_se~r    =         1.8
                  s3uni           =    .6837273 (mean)
                  lngdppc_re~t    =    7.995519 (mean)
                  lngdppc_se~r    =    7.995751 (mean)
                  westandrus~y    =    .5776536 (mean)
                  _Iyear_1975     =    .1300268 (mean)
                  _Iyear_1980     =     .158632 (mean)
                  _Iyear_1985     =    .1635282 (mean)
                  _Iyear_1990     =    .1613935 (mean)
                  _Iyear_1995     =    .1634737 (mean)
                  _Iyear_2000     =    .2158514 (mean)
                  _Iyear_2005     =    .0070945 (mean)

6._at           : ldr_at_rec~m    =    .3375846 (mean)
                  lndistance      =    8.668283 (mean)
                  powerpc_re~t    =    -.054101 (mean)
                  powerpc_se~r    =         2.8
                  s3uni           =    .6837273 (mean)
                  lngdppc_re~t    =    7.995519 (mean)
                  lngdppc_se~r    =    7.995751 (mean)
                  westandrus~y    =    .5776536 (mean)
                  _Iyear_1975     =    .1300268 (mean)
                  _Iyear_1980     =     .158632 (mean)
                  _Iyear_1985     =    .1635282 (mean)
                  _Iyear_1990     =    .1613935 (mean)
                  _Iyear_1995     =    .1634737 (mean)
                  _Iyear_2000     =    .2158514 (mean)
                  _Iyear_2005     =    .0070945 (mean)

7._at           : ldr_at_rec~m    =    .3375846 (mean)
                  lndistance      =    8.668283 (mean)
                  powerpc_re~t    =    -.054101 (mean)
                  powerpc_se~r    =         3.8
                  s3uni           =    .6837273 (mean)
                  lngdppc_re~t    =    7.995519 (mean)
                  lngdppc_se~r    =    7.995751 (mean)
                  westandrus~y    =    .5776536 (mean)
                  _Iyear_1975     =    .1300268 (mean)
                  _Iyear_1980     =     .158632 (mean)
                  _Iyear_1985     =    .1635282 (mean)
                  _Iyear_1990     =    .1613935 (mean)
                  _Iyear_1995     =    .1634737 (mean)
                  _Iyear_2000     =    .2158514 (mean)
                  _Iyear_2005     =    .0070945 (mean)

8._at           : ldr_at_rec~m    =    .3375846 (mean)
                  lndistance      =    8.668283 (mean)
                  powerpc_re~t    =    -.054101 (mean)
                  powerpc_se~r    =         4.8
                  s3uni           =    .6837273 (mean)
                  lngdppc_re~t    =    7.995519 (mean)
                  lngdppc_se~r    =    7.995751 (mean)
                  westandrus~y    =    .5776536 (mean)
                  _Iyear_1975     =    .1300268 (mean)
                  _Iyear_1980     =     .158632 (mean)
                  _Iyear_1985     =    .1635282 (mean)
                  _Iyear_1990     =    .1613935 (mean)
                  _Iyear_1995     =    .1634737 (mean)
                  _Iyear_2000     =    .2158514 (mean)
                  _Iyear_2005     =    .0070945 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

```
s3uni        |
         _at |
          1  |   .0083187   .0060008     1.39   0.166    -.0034426    .0200801
          2  |   .0348226   .0088021     3.96   0.000     .0175708    .0520744
          3  |   .0950106   .0104437     9.10   0.000     .0745413    .1154799
          4  |    .175199   .0140692    12.45   0.000     .1476237    .2027742
          5  |   .2081812    .019754    10.54   0.000      .169464    .2468984
          6  |   .1657614   .0194699     8.51   0.000      .127601    .2039218
          7  |    .100324   .0142756     7.03   0.000     .0723443    .1283037
          8  |   .0521487   .0086861     6.00   0.000     .0351243    .0691732
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                      Number of obs   =     110085
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : ldr_at_recipient_dum lndistance powerpc_recipient powerpc_sender s3uni
               lngdppc_recipient lngdppc_sender westandruscoldummy _Iyear_1975 _Iyear_1980 _Iyear_1985
               _Iyear_1990 _Iyear_1995 _Iyear_2000 _Iyear_2005
at           : ldr_at_rec~m    =    .3375846 (mean)
               lndistance      =    8.668283 (mean)
               powerpc_re~t    =    -.054101 (mean)
               powerpc_se~r    =   -.0530243 (mean)
               s3uni           =    .6837273 (mean)
               lngdppc_re~t    =    7.995519 (mean)
               lngdppc_se~r    =    7.995751 (mean)
               westandrus~y    =    .5776536 (mean)
               _Iyear_1975     =    .1300268 (mean)
               _Iyear_1980     =     .158632 (mean)
               _Iyear_1985     =    .1635282 (mean)
               _Iyear_1990     =    .1613935 (mean)
               _Iyear_1995     =    .1634737 (mean)
               _Iyear_2000     =    .2158514 (mean)
               _Iyear_2005     =    .0070945 (mean)

------------------------------------------------------------------------------
                     |            Delta-method
                     |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------------+--------------------------------------------------------------
ldr_at_recipient_dum |   .8718803   .0088278    98.76   0.000     .8545781    .8891826
          lndistance |  -.1712151   .0044208   -38.73   0.000    -.1798796   -.1625506
   powerpc_recipient |   .1500797   .0036418    41.21   0.000     .1429419    .1572176
      powerpc_sender |   .1674652   .0041884    39.98   0.000      .159256    .1756743
               s3uni |   .1066832   .0106783     9.99   0.000     .0857541    .1276124
   lngdppc_recipient |    .031077   .0024984    12.44   0.000     .0261802    .0359737
      lngdppc_sender |   .0306156   .0026863    11.40   0.000     .0253506    .0358807
  westandruscoldummy |  -.0182517   .0054672    -3.34   0.001    -.0289672   -.0075363
         _Iyear_1975 |   .3481489   .0241414    14.42   0.000     .3008327    .3954651
         _Iyear_1980 |    .292952   .0242299    12.09   0.000     .2454624    .3404416
         _Iyear_1985 |  -.2506969   .0245324   -10.22   0.000    -.2987795   -.2026144
         _Iyear_1990 |    .036671   .0238617     1.54   0.124    -.0100971    .0834391
         _Iyear_1995 |   -.006442    .023878    -0.27   0.787     -.053242     .040358
         _Iyear_2000 |  -.0517632   .0235836    -2.19   0.028    -.0979863   -.0055402
         _Iyear_2005 |          0  (omitted)
------------------------------------------------------------------------------

.
. * Include bilateral trade
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
bilat
> tradegdp_sender i.year if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

Iteration 0:   log pseudolikelihood = -84862.419
Iteration 1:   log pseudolikelihood = -54433.248
Iteration 2:   log pseudolikelihood = -53308.068
Iteration 3:   log pseudolikelihood =  -53288.13
Iteration 4:   log pseudolikelihood = -53288.076
Iteration 5:   log pseudolikelihood = -53288.076
```

```
Logistic regression                                     Number of obs   =     133953
                                                        Wald chi2(17)   =    8218.13
                                                        Prob > chi2     =     0.0000
Log pseudolikelihood = -53288.076                       Pseudo R2       =     0.3721

                                            (Std. Err. adjusted for 24163 clusters in dyadid)
------------------------------------------------------------------------------------------------
                               |               Robust
          dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------------------+----------------------------------------------------------------
                   lndistance |  -1.224586   .0244819   -50.02   0.000     -1.27257   -1.176603
            powerpc_recipient |   1.108291   .0530259    20.90   0.000     1.004362    1.212219
               powerpc_sender |   1.214049   .0553398    21.94   0.000     1.105585    1.322513
                        s3uni |   .4011217   .0558377     7.18   0.000     .2916819    .5105616
                              |
c.s3uni#c.powerpc_recipient |   .0416182   .0695067     0.60   0.549    -.0946124    .1778489
                              |
   c.s3uni#c.powerpc_sender |    .172817   .0742138     2.33   0.020     .0273606    .3182734
                              |
           lngdppc_recipient |    .220252   .0169846    12.97   0.000     .1869629    .2535411
              lngdppc_sender |   .0968599   .0179543     5.39   0.000     .0616702    .1320496
          westandruscoldummy |  -.4308207   .0359747   -11.98   0.000    -.5013299   -.3603115
        bilattradegdp_sender |   21.75102   3.934998     5.53   0.000     14.03856    29.46347
                  _Iyear_1975 |   .4021843   .0259499    15.50   0.000     .3513234    .4530453
                  _Iyear_1980 |   .7058513   .0285691    24.71   0.000     .6498569    .7618456
                  _Iyear_1985 |   -.247373   .0293802    -8.42   0.000    -.3049572   -.1897888
                  _Iyear_1990 |  -.2869394   .0309735    -9.26   0.000    -.3476463   -.2262325
                  _Iyear_1995 |  -.7884664   .0317267   -24.85   0.000    -.8506496   -.7262832
                  _Iyear_2000 |    -.90924    .033166   -27.41   0.000    -.9742441   -.8442359
                  _Iyear_2005 |  -1.257595   .0880603   -14.28   0.000     -1.43019      -1.085
                        _cons |   7.47461   .2987922    25.02   0.000     6.888988    8.060232
------------------------------------------------------------------------------------------------
Note: 0 failures and 4 successes completely determined.

. estat class

Logistic model for dr_at_recipient_dum

              -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     28284          7584  |      35868
     -     |     15797         82288  |      98085
-----------+--------------------------+-----------
   Total   |     44081         89872  |     133953

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   64.16%
Specificity                     Pr( -|~D)   91.56%
Positive predictive value       Pr( D| +)   78.86%
Negative predictive value       Pr(~D| -)   83.89%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    8.44%
False - rate for true D         Pr( -| D)   35.84%
False + rate for classified +   Pr(~D| +)   21.14%
False - rate for classified -   Pr( D| -)   16.11%
--------------------------------------------------
Correctly classified                        82.55%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                    Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
```

```
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                bilattrade~r    =    .0022145 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

2._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =        -1.2
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  bilattrade~r  =    .0022145 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

3._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =         -.2
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  bilattrade~r  =    .0022145 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

4._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =          .8
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  bilattrade~r  =    .0022145 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

5._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =         1.8
                  powerpc_se~r  =   -.0892789 (mean)
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  bilattrade~r  =    .0022145 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
```

```
               _Iyear_2005     =    .0058304 (mean)

6._at          : lndistance      =    8.660738 (mean)
                 powerpc_re~t    =         2.8
                 powerpc_se~r    =   -.0892789 (mean)
                 s3uni           =    .6597967 (mean)
                 lngdppc_re~t    =    7.971586 (mean)
                 lngdppc_se~r    =    7.972003 (mean)
                 westandrus~y    =    .5842198 (mean)
                 bilattrade~r    =    .0022145 (mean)
                 _Iyear_1975     =    .1293737 (mean)
                 _Iyear_1980     =    .1343456 (mean)
                 _Iyear_1985     =    .1343904 (mean)
                 _Iyear_1990     =    .1346368 (mean)
                 _Iyear_1995     =    .1772562 (mean)
                 _Iyear_2000     =    .1773906 (mean)
                 _Iyear_2005     =    .0058304 (mean)

7._at          : lndistance      =    8.660738 (mean)
                 powerpc_re~t    =         3.8
                 powerpc_se~r    =   -.0892789 (mean)
                 s3uni           =    .6597967 (mean)
                 lngdppc_re~t    =    7.971586 (mean)
                 lngdppc_se~r    =    7.972003 (mean)
                 westandrus~y    =    .5842198 (mean)
                 bilattrade~r    =    .0022145 (mean)
                 _Iyear_1975     =    .1293737 (mean)
                 _Iyear_1980     =    .1343456 (mean)
                 _Iyear_1985     =    .1343904 (mean)
                 _Iyear_1990     =    .1346368 (mean)
                 _Iyear_1995     =    .1772562 (mean)
                 _Iyear_2000     =    .1773906 (mean)
                 _Iyear_2005     =    .0058304 (mean)

8._at          : lndistance      =    8.660738 (mean)
                 powerpc_re~t    =         4.8
                 powerpc_se~r    =   -.0892789 (mean)
                 s3uni           =    .6597967 (mean)
                 lngdppc_re~t    =    7.971586 (mean)
                 lngdppc_se~r    =    7.972003 (mean)
                 westandrus~y    =    .5842198 (mean)
                 bilattrade~r    =    .0022145 (mean)
                 _Iyear_1975     =    .1293737 (mean)
                 _Iyear_1980     =    .1343456 (mean)
                 _Iyear_1985     =    .1343904 (mean)
                 _Iyear_1990     =    .1346368 (mean)
                 _Iyear_1995     =    .1772562 (mean)
                 _Iyear_2000     =    .1773906 (mean)
                 _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0092547   .0053474     1.73   0.084    -.0012259    .0197353
          2  |   .0287969   .0091743     3.14   0.002     .0108156    .0467782
          3  |   .0699528   .0112141     6.24   0.000     .0479736     .091932
          4  |   .1047414   .0182614     5.74   0.000     .0689496    .1405331
          5  |   .0841216   .0235063     3.58   0.000     .0380501     .130193
          6  |    .042073   .0163479     2.57   0.010     .0100318    .0741142
          7  |   .0166542   .0081173     2.05   0.040     .0007447    .0325638
          8  |    .006016   .0034572     1.74   0.082      -.00076     .012792
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                    Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni
```

```
1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

3._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         -.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

4._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =           .8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

5._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         1.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
```

```
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

6._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         2.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

7._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         3.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

8._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         4.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0003675    .003891     0.09   0.925    -.0072588    .0079937
          2  |   .0136404   .0081133     1.68   0.093    -.0022615    .0295422
          3  |   .0664831   .0111562     5.96   0.000     .0446174    .0883488
          4  |    .132773   .0184921     7.18   0.000     .0965292    .1690169
          5  |   .1048271   .0200045     5.24   0.000      .065619    .1440351
          6  |   .0459396   .0109199     4.21   0.000      .024537    .0673423
          7  |   .0158176   .0043584     3.63   0.000     .0072753    .0243599
          8  |   .0050022   .0015337     3.26   0.001     .0019962    .0080083
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                    Number of obs   =     133953
Model VCE    : Robust
```

```
Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy bilattradegdp_sender _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990
               _Iyear_1995 _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               bilattrade~r    =    .0022145 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
                     |            Delta-method
                     |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------------+--------------------------------------------------------------
          lndistance |  -.2411387   .0049478   -48.74   0.000    -.2508363   -.2314412
   powerpc_recipient |   .2236456   .0048512    46.10   0.000     .2141374    .2331538
      powerpc_sender |   .2615168   .0054234    48.22   0.000     .2508871    .2721465
               s3uni |   .0752086   .0114591     6.56   0.000     .0527492    .0976679
   lngdppc_recipient |   .0433708   .0033031    13.13   0.000     .0368969    .0498447
      lngdppc_sender |   .0190731   .0035236     5.41   0.000     .0121671    .0259791
  westandruscoldummy |  -.0848348   .0070649   -12.01   0.000    -.0986818   -.0709878
bilattradegdp_sender |   4.283089   .7846546     5.46   0.000     2.745194    5.820984
         _Iyear_1975 |   .0791959   .0051488    15.38   0.000     .0691044    .0892874
         _Iyear_1980 |   .1389923   .0057241    24.28   0.000     .1277732    .1502114
         _Iyear_1985 |  -.0487113   .0057172    -8.52   0.000    -.0599168   -.0375058
         _Iyear_1990 |  -.0565025   .0060235    -9.38   0.000    -.0683084   -.0446967
         _Iyear_1995 |  -.1552604   .0061334   -25.31   0.000    -.1672816   -.1432392
         _Iyear_2000 |  -.1790425   .0064499   -27.76   0.000    -.1916841   -.1664009
         _Iyear_2005 |  -.2476387   .0174142   -14.22   0.000    -.2817698   -.2135076
------------------------------------------------------------------------------

.
. * Include year of independence
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
indep
> endence_sender c.independence_sender#c.independence_sender  i.year if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

Iteration 0:   log pseudolikelihood = -84862.419
Iteration 1:   log pseudolikelihood = -54035.416
Iteration 2:   log pseudolikelihood = -52876.273
Iteration 3:   log pseudolikelihood = -52869.167
Iteration 4:   log pseudolikelihood = -52869.164

Logistic regression                               Number of obs   =     133953
                                                  Wald chi2(18)   =    8231.92
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -52869.164                 Pseudo R2       =     0.3770

                                          (Std. Err. adjusted for 24163 clusters in dyadid)
------------------------------------------------------------------------------------------
                         |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------------+----------------------------------------------------------------
                lndistance |  -1.311022   .0252518   -51.92   0.000    -1.360514   -1.261529
          powerpc_recipient |   1.185687   .0534076    22.20   0.000      1.08101    1.290364
             powerpc_sender |   1.197978   .0560892    21.36   0.000     1.088045    1.307911
                      s3uni |   .3278904   .0574855     5.70   0.000     .2152208      .44056
                            |
c.s3uni#c.powerpc_recipient |    .009326   .0706049     0.13   0.895    -.1290571    .1477091
                            |
```

```
   c.s3uni#c.powerpc_sender |   .0902761   .0754628     1.20   0.232    -.0576282    .2381804
                            |
           lngdppc_recipient |   .2296719   .0170238    13.49   0.000     .1963059    .2630378
              lngdppc_sender |   .1635083   .0181421     9.01   0.000     .1279504    .1990662
          westandruscoldummy |   -.043035   .0479579    -0.90   0.370    -.1370307    .0509606
        independence_sender |   .4611461   .0283756    16.25   0.000     .4055309    .5167613
                            |
      c.independence_sender#|
      c.independence_sender |  -.0001224   7.50e-06   -16.33   0.000    -.0001371   -.0001077
                            |
                 _Iyear_1975 |   .4469623    .026113    17.12   0.000     .3957817    .4981428
                 _Iyear_1980 |   .7538434   .0288674    26.11   0.000     .6972643    .8104224
                 _Iyear_1985 |  -.2194699   .0297513    -7.38   0.000    -.2777814   -.1611583
                 _Iyear_1990 |   -.250168    .031439    -7.96   0.000    -.3117873   -.1885487
                 _Iyear_1995 |  -.6831294   .0322703   -21.17   0.000    -.7463781   -.6198807
                 _Iyear_2000 |  -.8051631   .0336386   -23.94   0.000    -.8710936   -.7392325
                 _Iyear_2005 |  -.9578077   .0953079   -10.05   0.000    -1.144608   -.7710078
                       _cons |  -426.2299   26.80274   -15.90   0.000    -478.7623   -373.6975
------------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum

              -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     28530          7763  |      36293
     -     |     15551         82109  |      97660
-----------+--------------------------+-----------
   Total   |     44081         89872  |     133953

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   64.72%
Specificity                     Pr( -|~D)   91.36%
Positive predictive value       Pr( D| +)   78.61%
Negative predictive value       Pr(~D| -)   84.08%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    8.64%
False - rate for true D         Pr( -| D)   35.28%
False + rate for classified +   Pr(~D| +)   21.39%
False - rate for classified -   Pr( D| -)   15.92%
--------------------------------------------------
Correctly classified                        82.60%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =    1933.644 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -1.2
```

```
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                independen~r    =    1933.644 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

3._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =         -.2
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                independen~r    =    1933.644 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =           .8
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                independen~r    =    1933.644 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =         1.8
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                independen~r    =    1933.644 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

6._at           : lndistance    =    8.660738 (mean)
                powerpc_re~t    =         2.8
                powerpc_se~r    =   -.0892789 (mean)
                s3uni           =    .6597967 (mean)
                lngdppc_re~t    =    7.971586 (mean)
                lngdppc_se~r    =    7.972003 (mean)
                westandrus~y    =    .5842198 (mean)
                independen~r    =    1933.644 (mean)
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
```

```
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

7._at          : lndistance      =    8.660738 (mean)
                 powerpc_re~t    =         3.8
                 powerpc_se~r    =   -.0892789 (mean)
                 s3uni           =    .6597967 (mean)
                 lngdppc_re~t    =    7.971586 (mean)
                 lngdppc_se~r    =    7.972003 (mean)
                 westandrus~y    =    .5842198 (mean)
                 independen~r    =    1933.644 (mean)
                 _Iyear_1975     =    .1293737 (mean)
                 _Iyear_1980     =    .1343456 (mean)
                 _Iyear_1985     =    .1343904 (mean)
                 _Iyear_1990     =    .1346368 (mean)
                 _Iyear_1995     =    .1772562 (mean)
                 _Iyear_2000     =    .1773906 (mean)
                 _Iyear_2005     =    .0058304 (mean)

8._at          : lndistance      =    8.660738 (mean)
                 powerpc_re~t    =         4.8
                 powerpc_se~r    =   -.0892789 (mean)
                 s3uni           =    .6597967 (mean)
                 lngdppc_re~t    =    7.971586 (mean)
                 lngdppc_se~r    =    7.972003 (mean)
                 westandrus~y    =    .5842198 (mean)
                 independen~r    =    1933.644 (mean)
                 _Iyear_1975     =    .1293737 (mean)
                 _Iyear_1980     =    .1343456 (mean)
                 _Iyear_1985     =    .1343904 (mean)
                 _Iyear_1990     =    .1346368 (mean)
                 _Iyear_1995     =    .1772562 (mean)
                 _Iyear_2000     =    .1773906 (mean)
                 _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0104666   .0060962     1.72   0.086    -.0014818     .022415
          2  |   .0302913   .0108259     2.80   0.005      .009073    .0515096
          3  |   .0654604   .0128576     5.09   0.000     .0402601    .0906608
          4  |   .0800548   .0180481     4.44   0.000     .0446812    .1154284
          5  |   .0505889   .0195599     2.59   0.010     .0122523    .0889256
          6  |   .0207762   .0118161     1.76   0.079    -.0023829    .0439353
          7  |   .0071012   .0053184     1.34   0.182    -.0033226     .017525
          8  |   .0022773   .0021012     1.08   0.278    -.0018411    .0063956
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at          : lndistance      =    8.660738 (mean)
                 powerpc_re~t    =   -.0902882 (mean)
                 powerpc_se~r    =        -2.2
                 s3uni           =    .6597967 (mean)
                 lngdppc_re~t    =    7.971586 (mean)
                 lngdppc_se~r    =    7.972003 (mean)
                 westandrus~y    =    .5842198 (mean)
                 independen~r    =    1933.644 (mean)
                 _Iyear_1975     =    .1293737 (mean)
                 _Iyear_1980     =    .1343456 (mean)
                 _Iyear_1985     =    .1343904 (mean)
                 _Iyear_1990     =    .1346368 (mean)
                 _Iyear_1995     =    .1772562 (mean)
                 _Iyear_2000     =    .1773906 (mean)
```

```
                _Iyear_2005     =    .0058304 (mean)

2._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =        -1.2
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =    1933.644 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

3._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =         -.2
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =    1933.644 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =          .8
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =    1933.644 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =        1.8
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =    1933.644 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

6._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =        2.8
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =    1933.644 (mean)
```

```
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

7._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         3.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =    1933.644 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

8._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         4.8
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =    1933.644 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0039424   .0057018     0.69   0.489    -.0072329    .0151176
          2  |   .0202494   .0107506     1.88   0.060    -.0008215    .0413202
          3  |   .0633862   .0128852     4.92   0.000     .0381317    .0886407
          4  |   .0967651   .0183609     5.27   0.000     .0607784    .1327517
          5  |   .0679258   .0190341     3.57   0.000     .0306198    .1052319
          6  |    .029483   .0106576     2.77   0.006     .0085946    .0503715
          7  |   .0104821   .0044717     2.34   0.019     .0017177    .0192465
          8  |   .0034605   .0016582     2.09   0.037     .0002105    .0067105
------------------------------------------------------------------------------

. margins, dydx(independence_sender) at(independence_sender=(1816 1850 1900 1925 1950 1
> 970 1990)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : independence_sender

1._at          : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =        1816
               _Iyear_1975     =    .1293737 (mean)
```

```
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

2._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =        1850
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

3._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =        1900
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =        1925
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  independen~r    =        1950
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

6._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =   -.0902882 (mean)
                  powerpc_se~r    =   -.0892789 (mean)
```

```
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =        1970
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

7._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =        1990
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
                     |            Delta-method
                     |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------------+--------------------------------------------------------------
independence_sender |
                _at |
                 1  |   .0032257   .0002048    15.75   0.000     .0028243    .0036271
                 2  |   .0018633   .0001718    10.85   0.000     .0015265       .0022
                 3  |  -.0009736   .0001082    -9.00   0.000    -.0011856   -.0007617
                 4  |  -.0022978   .0001602   -14.34   0.000    -.0026118   -.0019838
                 5  |  -.0032194   .0001936   -16.63   0.000    -.0035988     -.00284
                 6  |  -.0034236   .0001634   -20.95   0.000    -.0037439   -.0031033
                 7  |  -.0030706   .0000857   -35.82   0.000    -.0032387   -.0029026
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy independence_sender _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990
               _Iyear_1995 _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               independen~r    =    1933.644 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
                     |            Delta-method
                     |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------------+--------------------------------------------------------------
         lndistance |  -.2841259   .0062802   -45.24   0.000    -.2964348    -.271817
```

```
  powerpc_recipient |   .2582967   .0057367    45.03   0.000     .2470531    .2695404
     powerpc_sender |   .2725357   .0059987    45.43   0.000     .2607786    .2842929
              s3uni |   .0691315   .0129903     5.32   0.000      .043671    .0945921
  lngdppc_recipient |   .0497747   .0036587    13.60   0.000     .0426038    .0569456
     lngdppc_sender |   .0354357   .0039727     8.92   0.000     .0276493     .043222
 westandruscoldummy |  -.0093266   .0103668    -0.90   0.368    -.0296451    .0109919
independence_sender |  -.0026807   .0001778   -15.07   0.000    -.0030292   -.0023321
        _Iyear_1975 |   .0968661   .0057733    16.78   0.000     .0855506    .1081816
        _Iyear_1980 |   .1633737   .0064864    25.19   0.000     .1506606    .1760868
        _Iyear_1985 |  -.0475637   .0063862    -7.45   0.000    -.0600805    -.035047
        _Iyear_1990 |  -.0542167   .0067397    -8.04   0.000    -.0674263    -.041007
        _Iyear_1995 |  -.1480485   .0068319   -21.67   0.000    -.1614388   -.1346581
        _Iyear_2000 |  -.1744957   .0071673   -24.35   0.000    -.1885433   -.1604481
        _Iyear_2005 |   -.207577    .020525   -10.11   0.000    -.2478052   -.1673489
------------------------------------------------------------------------------

.
.
. * Include regime type dyad dummies
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
demde
> m autocautoc i.year if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

Iteration 0:   log pseudolikelihood = -80179.527
Iteration 1:   log pseudolikelihood =   -51434.7
Iteration 2:   log pseudolikelihood = -50577.112
Iteration 3:   log pseudolikelihood = -50573.739
Iteration 4:   log pseudolikelihood = -50573.739

Logistic regression                               Number of obs   =     124922
                                                  Wald chi2(18)   =    8284.14
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -50573.739                 Pseudo R2       =     0.3692

                                        (Std. Err. adjusted for 22796 clusters in dyadid)
------------------------------------------------------------------------------------------
                         |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
----------------------------+-------------------------------------------------------------
                lndistance |  -1.271516   .0240026   -52.97   0.000    -1.318561   -1.224472
          powerpc_recipient |   1.173461   .0571776    20.52   0.000     1.061395    1.285527
             powerpc_sender |   1.189089   .0563589    21.10   0.000     1.078627     1.29955
                      s3uni |   .3311806   .0575155     5.76   0.000     .2184523     .443909
                            |
c.s3uni#c.powerpc_recipient |    .008587    .076552     0.11   0.911    -.1414522    .1586263
                            |
   c.s3uni#c.powerpc_sender |   .2068571   .0761471     2.72   0.007     .0576114    .3561027
                            |
          lngdppc_recipient |   .2125628   .0176719    12.03   0.000     .1779264    .2471991
             lngdppc_sender |   .1018713   .0180507     5.64   0.000     .0664925      .13725
         westandruscoldummy |  -.3973915   .0365842   -10.86   0.000    -.4690952   -.3256879
                     demdem |    .292785   .0329938     8.87   0.000     .2281183    .3574516
                autocautoc |   .0097074   .0309643     0.31   0.754    -.0509816    .0703965
                _Iyear_1975 |   .4197745   .0265462    15.81   0.000      .367745     .471804
                _Iyear_1980 |   .7360613   .0290846    25.31   0.000     .6790566     .793066
                _Iyear_1985 |   -.251211   .0303967    -8.26   0.000    -.3107874   -.1916345
                _Iyear_1990 |  -.3268901   .0332232    -9.84   0.000    -.3920063   -.2617738
                _Iyear_1995 |  -.8558903   .0343506   -24.92   0.000    -.9232162   -.7885643
                _Iyear_2000 |  -1.000162   .0360382   -27.75   0.000    -1.070796   -.9295288
                _Iyear_2005 |  -1.250238   .0936378   -13.35   0.000    -1.433764   -1.066711
                      _cons |   7.925415   .3059105    25.91   0.000     7.325841    8.524988
------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum

             -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     27710          7444  |      35154
```

```
     -     |     14915         74853  |      89768
-----------+--------------------------+-----------
   Total   |     42625         82297  |     124922

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   65.01%
Specificity                     Pr( -|~D)   90.95%
Positive predictive value       Pr( D| +)   78.82%
Negative predictive value       Pr(~D| -)   83.38%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    9.05%
False - rate for true D         Pr( -| D)   34.99%
False + rate for classified +   Pr(~D| +)   21.18%
False - rate for classified -   Pr( D| -)   16.62%
--------------------------------------------------
Correctly classified                        82.10%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     124922
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0476449 (mean)
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

2._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =        -1.2
               powerpc_se~r    =   -.0476449 (mean)
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

3._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =         -.2
               powerpc_se~r    =   -.0476449 (mean)
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
```

```
                _Iyear_1990     =    .1338515 (mean)
                _Iyear_1995     =    .1732761 (mean)
                _Iyear_2000     =    .1734122 (mean)
                _Iyear_2005     =    .0053714 (mean)

4._at           : lndistance    =    8.669839 (mean)
                  powerpc_re~t  =          .8
                  powerpc_se~r  =   -.0476449 (mean)
                  s3uni         =    .6546165 (mean)
                  lngdppc_re~t  =    7.988308 (mean)
                  lngdppc_se~r  =    7.988818 (mean)
                  westandrus~y  =    .5690831 (mean)
                  demdem        =    .1760619 (mean)
                  autocautoc    =      .36863 (mean)
                  _Iyear_1975   =    .1324747 (mean)
                  _Iyear_1980   =    .1335393 (mean)
                  _Iyear_1985   =    .1335794 (mean)
                  _Iyear_1990   =    .1338515 (mean)
                  _Iyear_1995   =    .1732761 (mean)
                  _Iyear_2000   =    .1734122 (mean)
                  _Iyear_2005   =    .0053714 (mean)

5._at           : lndistance    =    8.669839 (mean)
                  powerpc_re~t  =         1.8
                  powerpc_se~r  =   -.0476449 (mean)
                  s3uni         =    .6546165 (mean)
                  lngdppc_re~t  =    7.988308 (mean)
                  lngdppc_se~r  =    7.988818 (mean)
                  westandrus~y  =    .5690831 (mean)
                  demdem        =    .1760619 (mean)
                  autocautoc    =      .36863 (mean)
                  _Iyear_1975   =    .1324747 (mean)
                  _Iyear_1980   =    .1335393 (mean)
                  _Iyear_1985   =    .1335794 (mean)
                  _Iyear_1990   =    .1338515 (mean)
                  _Iyear_1995   =    .1732761 (mean)
                  _Iyear_2000   =    .1734122 (mean)
                  _Iyear_2005   =    .0053714 (mean)

6._at           : lndistance    =    8.669839 (mean)
                  powerpc_re~t  =         2.8
                  powerpc_se~r  =   -.0476449 (mean)
                  s3uni         =    .6546165 (mean)
                  lngdppc_re~t  =    7.988308 (mean)
                  lngdppc_se~r  =    7.988818 (mean)
                  westandrus~y  =    .5690831 (mean)
                  demdem        =    .1760619 (mean)
                  autocautoc    =      .36863 (mean)
                  _Iyear_1975   =    .1324747 (mean)
                  _Iyear_1980   =    .1335393 (mean)
                  _Iyear_1985   =    .1335794 (mean)
                  _Iyear_1990   =    .1338515 (mean)
                  _Iyear_1995   =    .1732761 (mean)
                  _Iyear_2000   =    .1734122 (mean)
                  _Iyear_2005   =    .0053714 (mean)

7._at           : lndistance    =    8.669839 (mean)
                  powerpc_re~t  =         3.8
                  powerpc_se~r  =   -.0476449 (mean)
                  s3uni         =    .6546165 (mean)
                  lngdppc_re~t  =    7.988308 (mean)
                  lngdppc_se~r  =    7.988818 (mean)
                  westandrus~y  =    .5690831 (mean)
                  demdem        =    .1760619 (mean)
                  autocautoc    =      .36863 (mean)
                  _Iyear_1975   =    .1324747 (mean)
                  _Iyear_1980   =    .1335393 (mean)
                  _Iyear_1985   =    .1335794 (mean)
                  _Iyear_1990   =    .1338515 (mean)
                  _Iyear_1995   =    .1732761 (mean)
                  _Iyear_2000   =    .1734122 (mean)
                  _Iyear_2005   =    .0053714 (mean)

8._at           : lndistance    =    8.669839 (mean)
```

```
               powerpc_re~t    =         4.8
               powerpc_se~r    =   -.0476449 (mean)
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0090212   .0055388     1.63   0.103    -.0018347    .0198772
          2  |   .0263818   .0097933     2.69   0.007     .0071873    .0455763
          3  |   .0601364   .0117089     5.14   0.000     .0371874    .0830855
          4  |   .0818919   .0192163     4.26   0.000     .0442285    .1195552
          5  |   .0577626   .0240204     2.40   0.016     .0106834    .1048417
          6  |   .0253487   .0156317     1.62   0.105    -.0052889    .0559863
          7  |   .0089515   .0072972     1.23   0.220    -.0053508    .0232539
          8  |   .0029259   .0029461     0.99   0.321    -.0028482    .0087001
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     124922
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

2._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)
```

```
3._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =         -.2
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

4._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =          .8
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

5._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =         1.8
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

6._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =         2.8
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

7._at        : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =         3.8
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
```

```
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

8._at          : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =         4.8
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |  -.0027533   .0041591    -0.66   0.508    -.0109051    .0053985
          2  |   .0060876   .0086088     0.71   0.479    -.0107855    .0229606
          3  |   .0538079   .0116076     4.64   0.000     .0310573    .0765584
          4  |   .1227135   .0187687     6.54   0.000     .0859275    .1594995
          5  |   .1026247   .0201318     5.10   0.000     .0631671    .1420823
          6  |   .0466929   .0109972     4.25   0.000     .0251388     .068247
          7  |   .0165306    .004421     3.74   0.000     .0078656    .0251956
          8  |   .0053408   .0015708     3.40   0.001     .0022621    .0084194
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                       Number of obs   =     124922
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy demdem autocautoc _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990
               _Iyear_1995 _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.669839 (mean)
               powerpc_re~t    =   -.0489247 (mean)
               powerpc_se~r    =   -.0476449 (mean)
               s3uni           =    .6546165 (mean)
               lngdppc_re~t    =    7.988308 (mean)
               lngdppc_se~r    =    7.988818 (mean)
               westandrus~y    =    .5690831 (mean)
               demdem          =    .1760619 (mean)
               autocautoc      =      .36863 (mean)
               _Iyear_1975     =    .1324747 (mean)
               _Iyear_1980     =    .1335393 (mean)
               _Iyear_1985     =    .1335794 (mean)
               _Iyear_1990     =    .1338515 (mean)
               _Iyear_1995     =    .1732761 (mean)
               _Iyear_2000     =    .1734122 (mean)
               _Iyear_2005     =    .0053714 (mean)

------------------------------------------------------------------------------
                   |            Delta-method
                   |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------+----------------------------------------------------------------
```

```
        lndistance |   -.259807   .0051078   -50.87   0.000     -.269818    -.249796
 powerpc_recipient |     .24092   .0053263    45.23   0.000     .2304806    .2513594
    powerpc_sender |   .2706332   .0058304    46.42   0.000     .2592058    .2820606
             s3uni |     .06557   .0120005     5.46   0.000     .0420494    .0890906
 lngdppc_recipient |   .0434326   .0035835    12.12   0.000     .0364092    .0504561
    lngdppc_sender |   .0208152   .0036815     5.65   0.000     .0135996    .0280308
westandruscoldummy |  -.0811984   .0074563   -10.89   0.000    -.0958125   -.0665843
            demdem |   .0598243   .0067626     8.85   0.000     .0465699    .0730787
        autocautoc |   .0019835   .0063285     0.31   0.754    -.0104201    .0143871
       _Iyear_1975 |   .0857719   .0054827    15.64   0.000     .0750259    .0965178
       _Iyear_1980 |   .1503983    .006062    24.81   0.000      .138517    .1622796
       _Iyear_1985 |  -.0513296   .0061405    -8.36   0.000    -.0633647   -.0392944
       _Iyear_1990 |   -.066793   .0066965    -9.97   0.000    -.0799179    -.053668
       _Iyear_1995 |  -.1748828   .0068835   -25.41   0.000    -.1883741   -.1613914
       _Iyear_2000 |  -.2043616   .0072599   -28.15   0.000    -.2185908   -.1901325
       _Iyear_2005 |  -.2554592   .0192219   -13.29   0.000    -.2931334   -.2177849
------------------------------------------------------------------------------

.
.
. * Divide into Cold War and post-Cold War period
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
i.year
>  if  samedyad==0 & year<1990, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

note: _Iyear_1990 omitted because of collinearity
note: _Iyear_1995 omitted because of collinearity
note: _Iyear_2000 omitted because of collinearity
note: _Iyear_2005 omitted because of collinearity
Iteration 0:   log pseudolikelihood = -44330.277
Iteration 1:   log pseudolikelihood = -29513.709
Iteration 2:   log pseudolikelihood = -29170.784
Iteration 3:   log pseudolikelihood = -29170.135
Iteration 4:   log pseudolikelihood = -29170.135

Logistic regression                               Number of obs   =      67631
                                                  Wald chi2(12)   =    5928.88
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -29170.135                 Pseudo R2       =     0.3420

                                        (Std. Err. adjusted for 18084 clusters in dyadid)
------------------------------------------------------------------------------------------
                         |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------------+----------------------------------------------------------------
                lndistance |  -1.220204   .0280188   -43.55   0.000     -1.27512   -1.165288
          powerpc_recipient |   .8957283   .0449783    19.91   0.000     .8075724    .9838842
             powerpc_sender |   .9766701   .0474034    20.60   0.000     .8837612    1.069579
                      s3uni |   .3933671   .0561611     7.00   0.000     .2832934    .5034409
                            |
c.s3uni#c.powerpc_recipient |   .1738273   .0611093     2.84   0.004     .0540553    .2935994
                            |
   c.s3uni#c.powerpc_sender |   .3730958   .0643397     5.80   0.000     .2469924    .4991992
                            |
          lngdppc_recipient |   .3202132   .0183345    17.47   0.000     .2842781    .3561482
             lngdppc_sender |   .1806607   .0193187     9.35   0.000     .1427966    .2185247
        westandruscoldummy |  -.3623082   .0392195    -9.24   0.000    -.4391769   -.2854394
               _Iyear_1975 |   .3873405   .0249537    15.52   0.000     .3384322    .4362487
               _Iyear_1980 |   .6846831   .0274635    24.93   0.000     .6308556    .7385105
               _Iyear_1985 |  -.2345459   .0281256    -8.34   0.000    -.2896711   -.1794208
               _Iyear_1990 |          0  (omitted)
               _Iyear_1995 |          0  (omitted)
               _Iyear_2000 |          0  (omitted)
               _Iyear_2005 |          0  (omitted)
                     _cons |    5.97395   .3216406    18.57   0.000     5.343546    6.604354
------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum
```

```
             -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     15914          4492  |      20406
     -     |      8678         38547  |      47225
-----------+--------------------------+-----------
   Total   |     24592         43039  |      67631

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   64.71%
Specificity                     Pr( -|~D)   89.56%
Positive predictive value       Pr( D| +)   77.99%
Negative predictive value       Pr(~D| -)   81.62%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)   10.44%
False - rate for true D         Pr( -| D)   35.29%
False + rate for classified +   Pr(~D| +)   22.01%
False - rate for classified -   Pr( D| -)   18.38%
--------------------------------------------------
Correctly classified                        80.53%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                    Number of obs   =      67631
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =     8.68815 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.1428588 (mean)
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
               _Iyear_2000     =           0 (mean)
               _Iyear_2005     =           0 (mean)

2._at        : lndistance      =     8.68815 (mean)
               powerpc_re~t    =        -1.2
               powerpc_se~r    =   -.1428588 (mean)
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
               _Iyear_2000     =           0 (mean)
               _Iyear_2005     =           0 (mean)

3._at        : lndistance      =     8.68815 (mean)
               powerpc_re~t    =         -.2
               powerpc_se~r    =   -.1428588 (mean)
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
```

```
                _Iyear_2000     =           0 (mean)
                _Iyear_2005     =           0 (mean)

4._at           : lndistance    =     8.68815 (mean)
                  powerpc_re~t  =          .8
                  powerpc_se~r  =   -.1428588 (mean)
                  s3uni         =    .6248045 (mean)
                  lngdppc_re~t  =    7.915577 (mean)
                  lngdppc_se~r  =    7.916054 (mean)
                  westandrus~y  =    .5590927 (mean)
                  _Iyear_1975   =    .2562434 (mean)
                  _Iyear_1980   =     .266091 (mean)
                  _Iyear_1985   =    .2661797 (mean)
                  _Iyear_1990   =           0 (mean)
                  _Iyear_1995   =           0 (mean)
                  _Iyear_2000   =           0 (mean)
                  _Iyear_2005   =           0 (mean)

5._at           : lndistance    =     8.68815 (mean)
                  powerpc_re~t  =         1.8
                  powerpc_se~r  =   -.1428588 (mean)
                  s3uni         =    .6248045 (mean)
                  lngdppc_re~t  =    7.915577 (mean)
                  lngdppc_se~r  =    7.916054 (mean)
                  westandrus~y  =    .5590927 (mean)
                  _Iyear_1975   =    .2562434 (mean)
                  _Iyear_1980   =     .266091 (mean)
                  _Iyear_1985   =    .2661797 (mean)
                  _Iyear_1990   =           0 (mean)
                  _Iyear_1995   =           0 (mean)
                  _Iyear_2000   =           0 (mean)
                  _Iyear_2005   =           0 (mean)

6._at           : lndistance    =     8.68815 (mean)
                  powerpc_re~t  =         2.8
                  powerpc_se~r  =   -.1428588 (mean)
                  s3uni         =    .6248045 (mean)
                  lngdppc_re~t  =    7.915577 (mean)
                  lngdppc_se~r  =    7.916054 (mean)
                  westandrus~y  =    .5590927 (mean)
                  _Iyear_1975   =    .2562434 (mean)
                  _Iyear_1980   =     .266091 (mean)
                  _Iyear_1985   =    .2661797 (mean)
                  _Iyear_1990   =           0 (mean)
                  _Iyear_1995   =           0 (mean)
                  _Iyear_2000   =           0 (mean)
                  _Iyear_2005   =           0 (mean)

7._at           : lndistance    =     8.68815 (mean)
                  powerpc_re~t  =         3.8
                  powerpc_se~r  =   -.1428588 (mean)
                  s3uni         =    .6248045 (mean)
                  lngdppc_re~t  =    7.915577 (mean)
                  lngdppc_se~r  =    7.916054 (mean)
                  westandrus~y  =    .5590927 (mean)
                  _Iyear_1975   =    .2562434 (mean)
                  _Iyear_1980   =     .266091 (mean)
                  _Iyear_1985   =    .2661797 (mean)
                  _Iyear_1990   =           0 (mean)
                  _Iyear_1995   =           0 (mean)
                  _Iyear_2000   =           0 (mean)
                  _Iyear_2005   =           0 (mean)

8._at           : lndistance    =     8.68815 (mean)
                  powerpc_re~t  =         4.8
                  powerpc_se~r  =   -.1428588 (mean)
                  s3uni         =    .6248045 (mean)
                  lngdppc_re~t  =    7.915577 (mean)
                  lngdppc_se~r  =    7.916054 (mean)
                  westandrus~y  =    .5590927 (mean)
                  _Iyear_1975   =    .2562434 (mean)
                  _Iyear_1980   =     .266091 (mean)
                  _Iyear_1985   =    .2661797 (mean)
                  _Iyear_1990   =           0 (mean)
```

```
              _Iyear_1995     =           0 (mean)
              _Iyear_2000     =           0 (mean)
              _Iyear_2005     =           0 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |  -.0023239   .0081395    -0.29   0.775    -.0182771    .0136292
          2  |   .0162531   .0116481     1.40   0.163    -.0065769     .039083
          3  |   .0659446   .0126232     5.22   0.000     .0412035    .0906857
          4  |   .1182081    .018014     6.56   0.000     .0829014    .1535148
          5  |   .1139931   .0209444     5.44   0.000     .0729429    .1550433
          6  |   .0719558   .0155495     4.63   0.000     .0414795    .1024322
          7  |   .0361792   .0088567     4.08   0.000     .0188204     .053538
          8  |   .0163253   .0044075     3.70   0.000     .0076867    .0249638
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =      67631
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =     8.68815 (mean)
               powerpc_re~t    =   -.1438045 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
               _Iyear_2000     =           0 (mean)
               _Iyear_2005     =           0 (mean)

2._at        : lndistance      =     8.68815 (mean)
               powerpc_re~t    =   -.1438045 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
               _Iyear_2000     =           0 (mean)
               _Iyear_2005     =           0 (mean)

3._at        : lndistance      =     8.68815 (mean)
               powerpc_re~t    =   -.1438045 (mean)
               powerpc_se~r    =         -.2
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
               _Iyear_2000     =           0 (mean)
               _Iyear_2005     =           0 (mean)

4._at        : lndistance      =     8.68815 (mean)
```

```
                powerpc_re~t    =   -.1438045 (mean)
                powerpc_se~r    =          .8
                s3uni           =    .6248045 (mean)
                lngdppc_re~t    =    7.915577 (mean)
                lngdppc_se~r    =    7.916054 (mean)
                westandrus~y    =    .5590927 (mean)
                _Iyear_1975     =    .2562434 (mean)
                _Iyear_1980     =     .266091 (mean)
                _Iyear_1985     =    .2661797 (mean)
                _Iyear_1990     =           0 (mean)
                _Iyear_1995     =           0 (mean)
                _Iyear_2000     =           0 (mean)
                _Iyear_2005     =           0 (mean)

5._at           : lndistance    =     8.68815 (mean)
                powerpc_re~t    =   -.1438045 (mean)
                powerpc_se~r    =         1.8
                s3uni           =    .6248045 (mean)
                lngdppc_re~t    =    7.915577 (mean)
                lngdppc_se~r    =    7.916054 (mean)
                westandrus~y    =    .5590927 (mean)
                _Iyear_1975     =    .2562434 (mean)
                _Iyear_1980     =     .266091 (mean)
                _Iyear_1985     =    .2661797 (mean)
                _Iyear_1990     =           0 (mean)
                _Iyear_1995     =           0 (mean)
                _Iyear_2000     =           0 (mean)
                _Iyear_2005     =           0 (mean)

6._at           : lndistance    =     8.68815 (mean)
                powerpc_re~t    =   -.1438045 (mean)
                powerpc_se~r    =         2.8
                s3uni           =    .6248045 (mean)
                lngdppc_re~t    =    7.915577 (mean)
                lngdppc_se~r    =    7.916054 (mean)
                westandrus~y    =    .5590927 (mean)
                _Iyear_1975     =    .2562434 (mean)
                _Iyear_1980     =     .266091 (mean)
                _Iyear_1985     =    .2661797 (mean)
                _Iyear_1990     =           0 (mean)
                _Iyear_1995     =           0 (mean)
                _Iyear_2000     =           0 (mean)
                _Iyear_2005     =           0 (mean)

7._at           : lndistance    =     8.68815 (mean)
                powerpc_re~t    =   -.1438045 (mean)
                powerpc_se~r    =         3.8
                s3uni           =    .6248045 (mean)
                lngdppc_re~t    =    7.915577 (mean)
                lngdppc_se~r    =    7.916054 (mean)
                westandrus~y    =    .5590927 (mean)
                _Iyear_1975     =    .2562434 (mean)
                _Iyear_1980     =     .266091 (mean)
                _Iyear_1985     =    .2661797 (mean)
                _Iyear_1990     =           0 (mean)
                _Iyear_1995     =           0 (mean)
                _Iyear_2000     =           0 (mean)
                _Iyear_2005     =           0 (mean)

8._at           : lndistance    =     8.68815 (mean)
                powerpc_re~t    =   -.1438045 (mean)
                powerpc_se~r    =         4.8
                s3uni           =    .6248045 (mean)
                lngdppc_re~t    =    7.915577 (mean)
                lngdppc_se~r    =    7.916054 (mean)
                westandrus~y    =    .5590927 (mean)
                _Iyear_1975     =    .2562434 (mean)
                _Iyear_1980     =     .266091 (mean)
                _Iyear_1985     =    .2661797 (mean)
                _Iyear_1990     =           0 (mean)
                _Iyear_1995     =           0 (mean)
                _Iyear_2000     =           0 (mean)
                _Iyear_2005     =           0 (mean)
```

```
------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |  -.0169275   .0059018    -2.87   0.004    -.0284949   -.0053602
          2  |  -.0083528   .0103511    -0.81   0.420    -.0286407     .011935
          3  |   .0631512   .0125902     5.02   0.000      .038475    .0878275
          4  |   .1594696   .0175863     9.07   0.000     .1250012    .1939381
          5  |    .142191   .0170098     8.36   0.000     .1088523    .1755296
          6  |   .0735239   .0103614     7.10   0.000     .0532159    .0938319
          7  |   .0299927   .0049509     6.06   0.000     .0202892    .0396963
          8  |   .0110955   .0021011     5.28   0.000     .0069774    .0152136
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                      Number of obs   =      67631
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990 _Iyear_1995
               _Iyear_2000 _Iyear_2005
at           : lndistance      =     8.68815 (mean)
               powerpc_re~t    =   -.1438045 (mean)
               powerpc_se~r    =   -.1428588 (mean)
               s3uni           =    .6248045 (mean)
               lngdppc_re~t    =    7.915577 (mean)
               lngdppc_se~r    =    7.916054 (mean)
               westandrus~y    =    .5590927 (mean)
               _Iyear_1975     =    .2562434 (mean)
               _Iyear_1980     =     .266091 (mean)
               _Iyear_1985     =    .2661797 (mean)
               _Iyear_1990     =           0 (mean)
               _Iyear_1995     =           0 (mean)
               _Iyear_2000     =           0 (mean)
               _Iyear_2005     =           0 (mean)

------------------------------------------------------------------------------
                   |            Delta-method
                   |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------+----------------------------------------------------------------
        lndistance |  -.2689189   .0064693   -41.57   0.000    -.2815984   -.2562394
 powerpc_recipient |   .2213441   .0057967    38.18   0.000     .2099828    .2327055
    powerpc_sender |    .266622    .006825    39.07   0.000     .2532451    .2799988
             s3uni |   .0694378   .0127224     5.46   0.000     .0445024    .0943731
 lngdppc_recipient |   .0705713   .0040249    17.53   0.000     .0626827    .0784599
    lngdppc_sender |   .0398155   .0042471     9.37   0.000     .0314914    .0481397
westandruscoldummy |  -.0798485    .008621    -9.26   0.000    -.0967454   -.0629517
       _Iyear_1975 |   .0853654   .0055369    15.42   0.000     .0745133    .0962174
       _Iyear_1980 |   .1508962   .0061159    24.67   0.000     .1389093    .1628832
       _Iyear_1985 |  -.0516912   .0062022    -8.33   0.000    -.0638474   -.0395351
       _Iyear_1990 |          0  (omitted)
       _Iyear_1995 |          0  (omitted)
       _Iyear_2000 |          0  (omitted)
       _Iyear_2005 |          0  (omitted)
------------------------------------------------------------------------------

.
. xi: logit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.powe
> rpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
i.year
>  if  samedyad==0 & year>=1990, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

note: _Iyear_1975 omitted because of collinearity
note: _Iyear_1980 omitted because of collinearity
note: _Iyear_1985 omitted because of collinearity
note: _Iyear_2005 omitted because of collinearity
Iteration 0:   log pseudolikelihood = -40162.396
Iteration 1:   log pseudolikelihood = -24821.632
```

```
Iteration 2:   log pseudolikelihood = -23989.778
Iteration 3:   log pseudolikelihood = -23979.349
Iteration 4:   log pseudolikelihood = -23979.332
Iteration 5:   log pseudolikelihood = -23979.332

Logistic regression                               Number of obs   =      66322
                                                  Wald chi2(12)   =    6218.74
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -23979.332                 Pseudo R2       =     0.4029

                                          (Std. Err. adjusted for 24098 clusters in dyadid)
------------------------------------------------------------------------------------------
                           |               Robust
        dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
---------------------------+--------------------------------------------------------------
                 lndistance |  -1.299104   .0267468   -48.57   0.000    -1.351527   -1.246681
          powerpc_recipient |   1.776817   .1232959    14.41   0.000     1.535162    2.018473
             powerpc_sender |   1.630297   .1083116    15.05   0.000      1.41801    1.842584
                      s3uni |   .4903048   .0890072     5.51   0.000     .3158538    .6647558
                            |
c.s3uni#c.powerpc_recipient |   -.527389     .16002    -3.30   0.001    -.8410224   -.2137555
                            |
   c.s3uni#c.powerpc_sender |  -.2369826   .1427846    -1.66   0.097    -.5168352      .04287
                            |
          lngdppc_recipient |   .1193597   .0211748     5.64   0.000     .0778579    .1608616
             lngdppc_sender |   .0386026   .0215664     1.79   0.073    -.0036667     .080872
        westandruscoldummy |  -.5029995   .0427075   -11.78   0.000    -.5867047   -.4192944
               _Iyear_1975 |          0  (omitted)
               _Iyear_1980 |          0  (omitted)
               _Iyear_1985 |          0  (omitted)
               _Iyear_1990 |   .9179591    .087165    10.53   0.000     .7471189    1.088799
               _Iyear_1995 |   .4112592   .0857598     4.80   0.000     .2431732    .5793452
               _Iyear_2000 |   .2878814   .0847876     3.40   0.001     .1217008    .4540621
               _Iyear_2005 |          0  (omitted)
                     _cons |   8.137794   .3724982    21.85   0.000     7.407711    8.867877
------------------------------------------------------------------------------------------

. estat class

Logistic model for dr_at_recipient_dum

             -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     12444          3292  |      15736
     -     |      7045         43541  |      50586
-----------+--------------------------+-----------
   Total   |     19489         46833  |      66322

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   63.85%
Specificity                     Pr( -|~D)   92.97%
Positive predictive value       Pr( D| +)   79.08%
Negative predictive value       Pr(~D| -)   86.07%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    7.03%
False - rate for true D         Pr( -| D)   36.15%
False + rate for classified +   Pr(~D| +)   20.92%
False - rate for classified -   Pr( D| -)   13.93%
--------------------------------------------------
Correctly classified                        84.41%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =      66322
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.632785 (mean)
```

```
                powerpc_re~t    =        -2.2
                powerpc_se~r    =   -.0346414 (mean)
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

2._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =        -1.2
                powerpc_se~r    =   -.0346414 (mean)
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

3._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =         -.2
                powerpc_se~r    =   -.0346414 (mean)
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

4._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =          .8
                powerpc_se~r    =   -.0346414 (mean)
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

5._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =         1.8
                powerpc_se~r    =   -.0346414 (mean)
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)
```

```
6._at        : lndistance      =    8.632785 (mean)
               powerpc_re~t    =         2.8
               powerpc_se~r    =   -.0346414 (mean)
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
               _Iyear_1980     =           0 (mean)
               _Iyear_1985     =           0 (mean)
               _Iyear_1990     =    .2719309 (mean)
               _Iyear_1995     =    .3580109 (mean)
               _Iyear_2000     =    .3582823 (mean)
               _Iyear_2005     =    .0117759 (mean)

7._at        : lndistance      =    8.632785 (mean)
               powerpc_re~t    =         3.8
               powerpc_se~r    =   -.0346414 (mean)
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
               _Iyear_1980     =           0 (mean)
               _Iyear_1985     =           0 (mean)
               _Iyear_1990     =    .2719309 (mean)
               _Iyear_1995     =    .3580109 (mean)
               _Iyear_2000     =    .3582823 (mean)
               _Iyear_2005     =    .0117759 (mean)

8._at        : lndistance      =    8.632785 (mean)
               powerpc_re~t    =         4.8
               powerpc_se~r    =   -.0346414 (mean)
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
               _Iyear_1980     =           0 (mean)
               _Iyear_1985     =           0 (mean)
               _Iyear_1990     =    .2719309 (mean)
               _Iyear_1995     =    .3580109 (mean)
               _Iyear_2000     =    .3582823 (mean)
               _Iyear_2005     =    .0117759 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0193493   .0043178     4.48   0.000     .0108866    .0278119
          2  |   .0503127   .0101335     4.96   0.000     .0304513    .0701741
          3  |   .0840035   .0145813     5.76   0.000     .0554246    .1125823
          4  |   .0189655   .0305707     0.62   0.535     -.040952     .078883
          5  |  -.0796455   .0465836    -1.71   0.087    -.1709476    .0116566
          6  |  -.0617313   .0261209    -2.36   0.018    -.1129273   -.0105353
          7  |  -.0257655   .0097306    -2.65   0.008    -.0448372   -.0066938
          8  |  -.0087414   .0031441    -2.78   0.005    -.0149036   -.0025791
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                    Number of obs   =      66322
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.632785 (mean)
               powerpc_re~t    =   -.0357158 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
```

```
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

2._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =   -.0357158 (mean)
                powerpc_se~r    =        -1.2
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

3._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =   -.0357158 (mean)
                powerpc_se~r    =         -.2
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

4._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =   -.0357158 (mean)
                powerpc_se~r    =          .8
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

5._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =   -.0357158 (mean)
                powerpc_se~r    =         1.8
                s3uni           =    .6954796 (mean)
                lngdppc_re~t    =    8.028701 (mean)
                lngdppc_se~r    =    8.029056 (mean)
                westandrus~y    =    .6098429 (mean)
                _Iyear_1975     =           0 (mean)
                _Iyear_1980     =           0 (mean)
                _Iyear_1985     =           0 (mean)
                _Iyear_1990     =    .2719309 (mean)
                _Iyear_1995     =    .3580109 (mean)
                _Iyear_2000     =    .3582823 (mean)
                _Iyear_2005     =    .0117759 (mean)

6._at           : lndistance    =    8.632785 (mean)
                powerpc_re~t    =   -.0357158 (mean)
                powerpc_se~r    =         2.8
                s3uni           =    .6954796 (mean)
```

```
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
               _Iyear_1980     =           0 (mean)
               _Iyear_1985     =           0 (mean)
               _Iyear_1990     =    .2719309 (mean)
               _Iyear_1995     =    .3580109 (mean)
               _Iyear_2000     =    .3582823 (mean)
               _Iyear_2005     =    .0117759 (mean)

7._at          : lndistance      =    8.632785 (mean)
               powerpc_re~t    =   -.0357158 (mean)
               powerpc_se~r    =         3.8
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
               _Iyear_1980     =           0 (mean)
               _Iyear_1985     =           0 (mean)
               _Iyear_1990     =    .2719309 (mean)
               _Iyear_1995     =    .3580109 (mean)
               _Iyear_2000     =    .3582823 (mean)
               _Iyear_2005     =    .0117759 (mean)

8._at          : lndistance      =    8.632785 (mean)
               powerpc_re~t    =   -.0357158 (mean)
               powerpc_se~r    =         4.8
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
               _Iyear_1980     =           0 (mean)
               _Iyear_1985     =           0 (mean)
               _Iyear_1990     =    .2719309 (mean)
               _Iyear_1995     =    .3580109 (mean)
               _Iyear_2000     =    .3582823 (mean)
               _Iyear_2005     =    .0117759 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0106733   .0036168     2.95   0.003     .0035845    .0177621
          2  |   .0332277   .0090532     3.67   0.000     .0154838    .0509717
          3  |   .0768533   .0142957     5.38   0.000     .0488344    .1048723
          4  |   .0794256    .028171     2.82   0.005     .0242114    .1346397
          5  |   .0137942   .0392114     0.35   0.725    -.0630588    .0906472
          6  |   -.008505   .0204709    -0.42   0.678    -.0486272    .0316172
          7  |  -.0054594   .0071331    -0.77   0.444      -.01944    .0085212
          8  |  -.0020771   .0021583    -0.96   0.336    -.0063073     .002153
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                       Number of obs   =      66322
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990 _Iyear_1995
               _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.632785 (mean)
               powerpc_re~t    =   -.0357158 (mean)
               powerpc_se~r    =   -.0346414 (mean)
               s3uni           =    .6954796 (mean)
               lngdppc_re~t    =    8.028701 (mean)
               lngdppc_se~r    =    8.029056 (mean)
               westandrus~y    =    .6098429 (mean)
               _Iyear_1975     =           0 (mean)
```

```
              _Iyear_1980     =           0 (mean)
              _Iyear_1985     =           0 (mean)
              _Iyear_1990     =    .2719309 (mean)
              _Iyear_1995     =    .3580109 (mean)
              _Iyear_2000     =    .3582823 (mean)
              _Iyear_2005     =    .0117759 (mean)

------------------------------------------------------------------------------
                  |            Delta-method
                  |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------------+-----------------------------------------------------------------
       lndistance |  -.2091753   .0047324   -44.20   0.000    -.2184505      -.1999
 powerpc_recipient |   .2270358   .0049204    46.14   0.000      .217392    .2366797
    powerpc_sender |   .2359644   .0051769    45.58   0.000     .2258178     .246111
            s3uni |   .0833012   .0147761     5.64   0.000     .0543405    .1122619
 lngdppc_recipient |   .0192187   .0033978     5.66   0.000     .0125591    .0258783
    lngdppc_sender |   .0062156   .0034677     1.79   0.073    -.0005809    .0130121
westandruscoldummy |  -.0809905   .0068354   -11.85   0.000    -.0943875   -.0675934
       _Iyear_1975 |          0  (omitted)
       _Iyear_1980 |          0  (omitted)
       _Iyear_1985 |          0  (omitted)
       _Iyear_1990 |   .1478052   .0142775    10.35   0.000     .1198219    .1757885
       _Iyear_1995 |   .0662189   .0138829     4.77   0.000      .039009    .0934288
       _Iyear_2000 |   .0463532   .0136991     3.38   0.001     .0195035     .073203
       _Iyear_2005 |          0  (omitted)
------------------------------------------------------------------------------

.
.
. * Use probit instead of logit
. xi: probit  dr_at_recipient_dum   lndistance powerpc_recipient powerpc_sender    s3uni
c.s3uni#c.pow
> erpc_recipient  c.s3uni#c.powerpc_sender  lngdppc_recipient  lngdppc_sender  westandruscoldummy
i.yea
> r if  samedyad==0, cluster( dyadid)
i.year            _Iyear_1970-2005    (naturally coded; _Iyear_1970 omitted)

Iteration 0:   log pseudolikelihood = -84862.419
Iteration 1:   log pseudolikelihood = -54193.128
Iteration 2:   log pseudolikelihood = -53861.416
Iteration 3:   log pseudolikelihood = -53860.912
Iteration 4:   log pseudolikelihood = -53860.912

Probit regression                                 Number of obs   =     133953
                                                  Wald chi2(16)   =    8361.68
                                                  Prob > chi2     =     0.0000
Log pseudolikelihood = -53860.912                 Pseudo R2       =     0.3653

                                          (Std. Err. adjusted for 24163 clusters in dyadid)
------------------------------------------------------------------------------------------
                         |               Robust
       dr_at_recipient_dum |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------------+----------------------------------------------------------------
               lndistance |  -.6992445   .0138606   -50.45   0.000    -.7264107   -.6720782
         powerpc_recipient |   .6132265   .0243916    25.14   0.000     .5654198    .6610332
            powerpc_sender |   .6207129   .0246848    25.15   0.000     .5723316    .6690942
                    s3uni |   .2035392    .031333     6.50   0.000     .1421277    .2649507
                          |
c.s3uni#c.powerpc_recipient |   .0476446   .0327607     1.45   0.146    -.0165652    .1118545
                          |
   c.s3uni#c.powerpc_sender |   .1447874   .0330687     4.38   0.000     .0799739    .2096009
                          |
         lngdppc_recipient |   .1323099   .0094556    13.99   0.000     .1137773    .1508426
            lngdppc_sender |   .0721212   .0098757     7.30   0.000     .0527653    .0914771
        westandruscoldummy |  -.2335797     .02049   -11.40   0.000    -.2737395     -.19342
               _Iyear_1975 |   .2429172   .0145873    16.65   0.000     .2143266    .2715078
               _Iyear_1980 |   .4198174   .0161916    25.93   0.000     .3880824    .4515524
               _Iyear_1985 |  -.1163033   .0164495    -7.07   0.000    -.1485437   -.0840629
               _Iyear_1990 |   -.131177    .017358    -7.56   0.000    -.1651981   -.0971559
               _Iyear_1995 |  -.4093234   .0174803   -23.42   0.000    -.4435841   -.3750627
               _Iyear_2000 |   -.481374   .0183426   -26.24   0.000    -.5173247   -.4454232
               _Iyear_2005 |  -.6976962   .0505426   -13.80   0.000     -.796758   -.5986345
                     _cons |   4.063616   .1705785    23.82   0.000     3.729288    4.397943
------------------------------------------------------------------------------------------
```

```
. estat class

Probit model for dr_at_recipient_dum

              -------- True --------
Classified |         D            ~D  |      Total
-----------+--------------------------+-----------
     +     |     27623          7250  |      34873
     -     |     16458         82622  |      99080
-----------+--------------------------+-----------
   Total   |     44081         89872  |     133953

Classified + if predicted Pr(D) >= .5
True D defined as dr_at_recipient_dum != 0
--------------------------------------------------
Sensitivity                     Pr( +| D)   62.66%
Specificity                     Pr( -|~D)   91.93%
Positive predictive value       Pr( D| +)   79.21%
Negative predictive value       Pr(~D| -)   83.39%
--------------------------------------------------
False + rate for true ~D        Pr( +|~D)    8.07%
False - rate for true D         Pr( -| D)   37.34%
False + rate for classified +   Pr(~D| +)   20.79%
False - rate for classified -   Pr( D| -)   16.61%
--------------------------------------------------
Correctly classified                        82.30%
--------------------------------------------------

. margins, dydx(s3uni) at(powerpc_recipient=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -2.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =        -1.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

3._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =         -.2
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
```

```
                _Iyear_1975     =    .1293737 (mean)
                _Iyear_1980     =    .1343456 (mean)
                _Iyear_1985     =    .1343904 (mean)
                _Iyear_1990     =    .1346368 (mean)
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =          .8
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

5._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =         1.8
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

6._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =         2.8
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

7._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =         3.8
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
                  westandrus~y    =    .5842198 (mean)
                  _Iyear_1975     =    .1293737 (mean)
                  _Iyear_1980     =    .1343456 (mean)
                  _Iyear_1985     =    .1343904 (mean)
                  _Iyear_1990     =    .1346368 (mean)
                  _Iyear_1995     =    .1772562 (mean)
                  _Iyear_2000     =    .1773906 (mean)
                  _Iyear_2005     =    .0058304 (mean)

8._at           : lndistance      =    8.660738 (mean)
                  powerpc_re~t    =         4.8
                  powerpc_se~r    =   -.0892789 (mean)
                  s3uni           =    .6597967 (mean)
                  lngdppc_re~t    =    7.971586 (mean)
                  lngdppc_se~r    =    7.972003 (mean)
```

```
              westandrus~y    =    .5842198 (mean)
              _Iyear_1975     =    .1293737 (mean)
              _Iyear_1980     =    .1343456 (mean)
              _Iyear_1985     =    .1343904 (mean)
              _Iyear_1990     =    .1346368 (mean)
              _Iyear_1995     =    .1772562 (mean)
              _Iyear_2000     =    .1773906 (mean)
              _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |   .0050678   .0048996     1.03   0.301    -.0045352    .0146709
          2  |   .0225746   .0091186     2.48   0.013     .0047024    .0404467
          3  |    .057903   .0106585     5.43   0.000     .0370128    .0787932
          4  |   .0912302   .0152013     6.00   0.000     .0614363    .1210241
          5  |    .090745   .0203797     4.45   0.000     .0508015    .1306885
          6  |   .0577985   .0163109     3.54   0.000     .0258297    .0897673
          7  |     .02377   .0079444     2.99   0.003     .0081993    .0393407
          8  |   .0063518   .0024565     2.59   0.010     .0015372    .0111665
------------------------------------------------------------------------------

. margins, dydx(s3uni) at(powerpc_sender=(-2.2 -1.2 -.2 .8 1.8 2.8 3.8 4.8)) atmeans

Conditional marginal effects                       Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : s3uni

1._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -2.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

2._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =        -1.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

3._at        : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =         -.2
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
```

```
                _Iyear_1995     =    .1772562 (mean)
                _Iyear_2000     =    .1773906 (mean)
                _Iyear_2005     =    .0058304 (mean)

4._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =   -.0902882 (mean)
                  powerpc_se~r  =          .8
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

5._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =   -.0902882 (mean)
                  powerpc_se~r  =          1.8
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

6._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =   -.0902882 (mean)
                  powerpc_se~r  =          2.8
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

7._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =   -.0902882 (mean)
                  powerpc_se~r  =          3.8
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
                  _Iyear_1990   =    .1346368 (mean)
                  _Iyear_1995   =    .1772562 (mean)
                  _Iyear_2000   =    .1773906 (mean)
                  _Iyear_2005   =    .0058304 (mean)

8._at           : lndistance    =    8.660738 (mean)
                  powerpc_re~t  =   -.0902882 (mean)
                  powerpc_se~r  =          4.8
                  s3uni         =    .6597967 (mean)
                  lngdppc_re~t  =    7.971586 (mean)
                  lngdppc_se~r  =    7.972003 (mean)
                  westandrus~y  =    .5842198 (mean)
                  _Iyear_1975   =    .1293737 (mean)
                  _Iyear_1980   =    .1343456 (mean)
                  _Iyear_1985   =    .1343904 (mean)
```

```
              _Iyear_1990     =    .1346368 (mean)
              _Iyear_1995     =    .1772562 (mean)
              _Iyear_2000     =    .1773906 (mean)
              _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
s3uni        |
         _at |
          1  |  -.0051783   .0036536    -1.42   0.156    -.0123391    .0019826
          2  |   .0038704    .008287     0.47   0.640    -.0123717    .0201125
          3  |   .0541366    .010616     5.10   0.000     .0333296    .0749437
          4  |   .1255804   .0151425     8.29   0.000     .0959017    .1552591
          5  |   .1375736   .0184337     7.46   0.000     .1014443     .173703
          6  |   .0812857   .0125784     6.46   0.000     .0566324     .105939
          7  |   .0271052   .0051314     5.28   0.000     .0170478    .0371626
          8  |   .0052578    .001298     4.05   0.000     .0027137    .0078019
------------------------------------------------------------------------------

. margins, dydx(*) atmeans

Conditional marginal effects                      Number of obs   =     133953
Model VCE    : Robust

Expression   : Pr(dr_at_recipient_dum), predict()
dy/dx w.r.t. : lndistance powerpc_recipient powerpc_sender s3uni lngdppc_recipient lngdppc_sender
               westandruscoldummy _Iyear_1975 _Iyear_1980 _Iyear_1985 _Iyear_1990 _Iyear_1995
               _Iyear_2000 _Iyear_2005
at           : lndistance      =    8.660738 (mean)
               powerpc_re~t    =   -.0902882 (mean)
               powerpc_se~r    =   -.0892789 (mean)
               s3uni           =    .6597967 (mean)
               lngdppc_re~t    =    7.971586 (mean)
               lngdppc_se~r    =    7.972003 (mean)
               westandrus~y    =    .5842198 (mean)
               _Iyear_1975     =    .1293737 (mean)
               _Iyear_1980     =    .1343456 (mean)
               _Iyear_1985     =    .1343904 (mean)
               _Iyear_1990     =    .1346368 (mean)
               _Iyear_1995     =    .1772562 (mean)
               _Iyear_2000     =    .1773906 (mean)
               _Iyear_2005     =    .0058304 (mean)

------------------------------------------------------------------------------
                   |            Delta-method
                   |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------------+----------------------------------------------------------------
        lndistance |  -.2337745   .0047375   -49.35   0.000    -.2430598   -.2244891
 powerpc_recipient |   .2155263   .0044694    48.22   0.000     .2067665    .2242861
    powerpc_sender |   .2394575   .0049524    48.35   0.000     .2297509    .2491641
             s3uni |   .0622883   .0108113     5.76   0.000     .0410985    .0834781
 lngdppc_recipient |   .0442344   .0031388    14.09   0.000     .0380825    .0503863
    lngdppc_sender |   .0241119   .0032951     7.32   0.000     .0176536    .0305701
westandruscoldummy |  -.0780914   .0068351   -11.43   0.000     -.091488   -.0646948
       _Iyear_1975 |   .0812131   .0049076    16.55   0.000     .0715944    .0908318
       _Iyear_1980 |   .1403552   .0054792    25.62   0.000     .1296161    .1510942
       _Iyear_1985 |   -.038883   .0054626    -7.12   0.000    -.0495895   -.0281765
       _Iyear_1990 |  -.0438557   .0057632    -7.61   0.000    -.0551513   -.0325601
       _Iyear_1995 |  -.1368468   .0057872   -23.65   0.000    -.1481896    -.125504
       _Iyear_2000 |   -.160935   .0060968   -26.40   0.000    -.1728846   -.1489855
       _Iyear_2005 |  -.2332568   .0169453   -13.77   0.000     -.266469   -.2000446
------------------------------------------------------------------------------

.
.
.
end of do-file
```