```r
#Read csv file into R
frame <- read.csv("/Users/mdweaver/Desktop/broockman_pa_2009.csv")
attach(frame)

#Drop anomalous observations as outlined
frame$dropflag <- 0
frame$dropflag[t2_3rdpartyinc == 1 | t2_incumbent_has_switched_prty == 1 |
t2_specialelectiontoeelect == 1 | t1_atlargeormulticandidate == 1 | t2_redist
== 1] <- 1
detach(frame)

data <- subset(frame, dropflag==0, select= -dropflag)

#create these variables so that they can be used in running a 4th order
polynomial
data$dwin <- 0
data$dwin[data$dv_c_t1=0] <- 1
data$dv_c_t1_2 <- data$dv_c_t1^2
data$dv_c_t1_3 <- data$dv_c_t1^3
data$dv_c_t1_4 <- data$dv_c_t1^4

data$i_dv_c_t1 <- data$dv_c_t1 * data$dwin
data$i_dv_c_t1_2 <- data$dv_c_t1_2 * data$dwin
data$i_dv_c_t1_3 <- data$dv_c_t1_3 * data$dwin
data$i_dv_c_t1_4 <- data$dv_c_t1_4 * data$dwin

data$margin <- abs(data$dv_c_t1)

data$bandwidth <- .25
```

```
#Overall incumbency effect
library(Design)

regress1 <- ols(dv_c_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 + dv_c_t1_4
+ i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data,
subset=margin < bandwidth, method="qr", x=TRUE)
robcov(regress1)
```

Linear Regression Model

```
ols(formula = dv_c_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data, subset = margin < bandwidth, method = "qr",
    x = TRUE)
```

Frequencies of Missing Values Due to Each Variable

dv_c_t2	dwin	dv_c_t1	dv_c_t1_2	dv_c_t1_3	dv_c_t1_4
404	0	0	0	0	0

i_dv_c_t1	i_dv_c_t1_2	i_dv_c_t1_3	i_dv_c_t1_4
0	0	0	0

n	Model L.R.	d.f.	R2	Sigma
6736	6826	9	0.637	0.1153

Residuals:

Min	1Q	Median	3Q	Max
-0.6416822	-0.0552321	0.0005411	0.0519824	0.4595924

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-0.06226	0.00774	-8.04459	8.882e-16
dwin	0.10097	0.01084	9.31245	0.000e+00
dv_c_t1	-0.16449	0.45763	-0.35943	7.193e-01
dv_c_t1_2	-14.24743	7.99969	-1.78100	7.496e-02
dv_c_t1_3	-91.45086	51.32702	-1.78173	7.484e-02
dv_c_t1_4	-198.33535	107.96329	-1.83706	6.624e-02
i_dv_c_t1	1.87724	0.67739	2.77127	5.599e-03
i_dv_c_t1_2	0.94808	11.94264	0.07939	9.367e-01
i_dv_c_t1_3	173.43085	76.00345	2.28188	2.253e-02
i_dv_c_t1_4	25.45579	157.64826	0.16147	8.717e-01

Residual standard error: 0.1153 on 6726 degrees of freedom
Adjusted R-Squared: 0.6365

```
 #Incumbency only in midterm years
 regress2 <- ols(dv_c_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 + dv_c_t1_4
+ i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data,
subset=margin < bandwidth & t2_is_midterm==1, method="qr", x=TRUE)
 robcov(regress2)
```

Linear Regression Model

```
ols(formula = dv_c_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data, subset = margin < bandwidth & t2_is_midterm ==
        1, method = "qr", x = TRUE)
```

Frequencies of Missing Values Due to Each Variable

dv_c_t2	dwin	dv_c_t1	dv_c_t1_2	dv_c_t1_3	dv_c_t1_4
42	0	0	0	0	0

i_dv_c_t1	i_dv_c_t1_2	i_dv_c_t1_3	i_dv_c_t1_4
0	0	0	0

n	Model L.R.	d.f.	R2	Sigma
3433	3289	9	0.6164	0.1235

Residuals:

Min	1Q	Median	3Q	Max
-0.443618	-0.062629	0.002119	0.058622	0.427464

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-0.05444	0.01150	-4.7336	2.295e-06
dwin	0.09447	0.01529	6.1794	7.193e-10
dv_c_t1	0.11163	0.69554	0.1605	8.725e-01
dv_c_t1_2	-8.79032	12.30464	-0.7144	4.750e-01
dv_c_t1_3	-57.99249	79.12008	-0.7330	4.636e-01
dv_c_t1_4	-134.55752	166.26326	-0.8093	4.184e-01
i_dv_c_t1	2.25080	0.98508	2.2849	2.238e-02
i_dv_c_t1_2	-13.92568	17.56230	-0.7929	4.279e-01
i_dv_c_t1_3	191.28308	112.01246	1.7077	8.778e-02
i_dv_c_t1_4	-134.33914	232.22501	-0.5785	5.630e-01

Residual standard error: 0.1235 on 3423 degrees of freedom
Adjusted R-Squared: 0.6154

```
 #Randomization Check
 data$south <- 0
 data$dwint2 <- 0
 data$t2_frinc <- max(data$t2_repfrinc, data$t2_demfrinc)
 data$t2_margin <- abs(data$dv_c_t2)
 data$dwint2[data$dv_c_t2  0] <- 1

 southern <- c('VA', 'DC', 'WV', 'KY', 'TN', 'NC', 'SC', 'GA', 'FL', 'AL',
'MS', 'LA', 'AR', 'OK', 'TX')

 for (i in 1:length(southern)){
      data$south[data$statesabbrev==southern[i]] <- 1
      }

 #Becomes less and less random as you go further from the threshold
 regress3 <- lm(dwint2 ~ dwin + south, data=data, subset=(t2_is_midterm==1 &
t2_margin < .01))
 summary(regress3)

Call:
lm(formula = dwint2 ~ dwin + south, data = data, subset = (t2_is_midterm ==
    1 & t2_margin < 0.01))

Residuals:
    Min      1Q  Median      3Q     Max
-0.5478 -0.4709 -0.3972  0.5259  0.6028

Coefficients:
            Estimate Std. Error t value Pr(|t|)
(Intercept)  0.39721    0.05747   6.911 1.77e-10 ***
dwin         0.07686    0.08932   0.861    0.391
south        0.07369    0.10207   0.722    0.472
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.4996 on 134 degrees of freedom
  (50 observations deleted due to missingness)
Multiple R-squared: 0.01174,  Adjusted R-squared: -0.003013
F-statistic: 0.7958 on 2 and 134 DF,  p-value: 0.4534
```

```
regress4 <- lm(dwint2 ~ dwin + south, data=data, subset=(t2_is_midterm==1 &
t2_margin < .015))
 summary(regress4)

Call:
lm(formula = dwint2 ~ dwin + south, data = data, subset = (t2_is_midterm ==
    1 & t2_margin < 0.015))

Residuals:
    Min      1Q  Median      3Q     Max
-0.5504 -0.4259 -0.3861  0.5741  0.6139

Coefficients:
            Estimate Std. Error t value Pr(|t|)
(Intercept)  0.42592    0.04546   9.368   <2e-16 ***
dwin         0.12451    0.07227   1.723   0.0864 .
south       -0.03977    0.08492  -0.468   0.6400
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.4988 on 208 degrees of freedom
  (50 observations deleted due to missingness)
Multiple R-squared: 0.01414,  Adjusted R-squared: 0.00466
F-statistic: 1.492 on 2 and 208 DF,  p-value: 0.2274
```

```
regress5 <- lm(dwint2 ~ dwin + south, data=data, subset=(t2_is_midterm==1 &
t2_margin < .02))
 summary(regress5)

Call:
lm(formula = dwint2 ~ dwin + south, data = data, subset = (t2_is_midterm ==
    1 & t2_margin < 0.02))

Residuals:
    Min      1Q  Median      3Q     Max
-0.5650 -0.3918 -0.3918  0.4646  0.6082

Coefficients:
            Estimate Std. Error t value Pr(|t|)
(Intercept)  0.39184    0.03875  10.111   <2e-16 ***
dwin         0.14353    0.06059   2.369   0.0185 *
south        0.02966    0.07118   0.417   0.6772
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.495 on 288 degrees of freedom
  (50 observations deleted due to missingness)
Multiple R-squared: 0.02151,  Adjusted R-squared: 0.01472
F-statistic: 3.166 on 2 and 288 DF,  p-value: 0.04365




 #Midterm years no longer needed, drop; Also the 2008 observations have no
presidential info
 data$dropflag <- 0
 data$dropflag[data$t2_is_midterm==1 | data$t2_year==2008] <- 1
 data2 <- subset(data, dropflag==0, select= -dropflag)


#Display how many observations are left from each year
 table(data2$t2_year)

1952 1956 1960 1964 1968 1972 1976 1980 1984 1988 1992 1996 2000 2004
 262  424  422  362  229   23  425  429  318  429   26  387  430  397
```

```
 #RD incumbency for presidential years
 regress6 <- ols(dv_c_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 + dv_c_t1_4
+ i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < bandwidth, method="qr", x=TRUE)
 robcov(regress6)

Linear Regression Model

ols(formula = dv_c_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < bandwidth, method = "qr",
    x = TRUE)

Frequencies of Missing Values Due to Each Variable
    dv_c_t2          dwin     dv_c_t1   dv_c_t1_2   dv_c_t1_3   dv_c_t1_4
        33             0           0           0           0           0
  i_dv_c_t1 i_dv_c_t1_2 i_dv_c_t1_3 i_dv_c_t1_4
        0           0           0           0


        n Model L.R.          d.f.           R2        Sigma
     3303        3636             9       0.6674       0.1052

Residuals:
      Min          1Q      Median          3Q          Max
-0.6269543 -0.0477705   0.0001874   0.0440267   0.4610749

Coefficients:
              Value Std. Error        t  Pr(|t|)
Intercept    -0.0700    0.01029  -6.8019 1.222e-11
dwin          0.1079    0.01539   7.0135 2.809e-12
dv_c_t1      -0.5050    0.59355  -0.8508 3.949e-01
dv_c_t1_2   -21.1046   10.24560  -2.0599 3.949e-02
dv_c_t1_3  -133.4544   65.55355  -2.0358 4.185e-02
dv_c_t1_4  -278.5038  137.97433  -2.0185 4.362e-02
i_dv_c_t1     1.4859    0.92310   1.6097 1.076e-01
i_dv_c_t1_2  18.6090   16.04763   1.1596 2.463e-01
i_dv_c_t1_3 155.0089  101.85353   1.5219 1.281e-01
i_dv_c_t1_4 221.7169  211.40937   1.0488 2.944e-01

Residual standard error: 0.1052 on 3293 degrees of freedom
Adjusted R-Squared: 0.6665
```

```
#fitted values and standard errors for RD incumbency for presidential years
incumbency1 <- predict(regress6, newdata=subset(data2, dv_c_t1<0),
type=c("lp"), se.fit=TRUE)
data2$incumbency_yhat1 <- NA
data2$incumbency_yhat1[data2$dv_c_t1<0] <- incumbency1$linear.predictors
data2$incumbency_stderror1 <- NA
data2$incumbency_stderror1[data2$dv_c_t1<0] <- incumbency1$se.fit

incumbency2 <- predict(regress6, newdata=subset(data2, dv_c_t1=0),
type=c("lp"), se.fit=TRUE)
data2$incumbency_yhat2 <- NA
data2$incumbency_yhat2[data2$dv_c_t1=0] <- incumbency2$linear.predictors
data2$incumbency_stderror2 <- NA
data2$incumbency_stderror2[data2$dv_c_t1=0] <- incumbency2$se.fit
```

```
 #RD reverse coattails
 regress7 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 + dv_c_t1_4
+ i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < bandwidth, method="qr", x=TRUE)
 robcov(regress7)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < bandwidth, method = "qr",
    x = TRUE)
```

	n	Model L.R.	d.f.	R2	Sigma
	3336	808.5	9	0.2152	0.09721

Residuals:

Min	1Q	Median	3Q	Max
-0.321372	-0.067076	-0.009366	0.064466	0.442755

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-4.560e-02	9.657e-03	-4.7216	2.437e-06
dwin	5.575e-03	1.437e-02	0.3880	6.980e-01
dv_c_t1	-4.275e-01	5.470e-01	-0.7815	4.346e-01
dv_c_t1_2	-1.374e+01	9.196e+00	-1.4945	1.351e-01
dv_c_t1_3	-8.915e+01	5.720e+01	-1.5585	1.192e-01
dv_c_t1_4	-1.794e+02	1.170e+02	-1.5327	1.255e-01
i_dv_c_t1	1.352e+00	8.612e-01	1.5694	1.167e-01
i_dv_c_t1_2	6.100e+00	1.467e+01	0.4158	6.776e-01
i_dv_c_t1_3	1.380e+02	9.150e+01	1.5079	1.317e-01
i_dv_c_t1_4	7.240e+01	1.874e+02	0.3863	6.993e-01

Residual standard error: 0.09721 on 3326 degrees of freedom
Adjusted R-Squared: 0.2131

```
#fitted values/standard errors for RD reverse coattails
 rvsctls1 <- predict(regress7, newdata=subset(data2, dv_c_t1<0),
type=c("lp"), se.fit=TRUE)
 data2$rvsctls_yhat1 <-NA
 data2$rvsctls_yhat1[data2$dv_c_t1<0] <- rvsctls1$linear.predictors
 data2$rvsctls_stderror1 <-NA
 data2$rvsctls_stderror1[data2$dv_c_t1<0] <- rvsctls1$se.fit

 rvsctls2 <- predict(regress7, newdata=subset(data2, dv_c_t1=0),
type=c("lp"), se.fit=TRUE)
 data2$rvsctls_yhat2<-NA
 data2$rvsctls_yhat2[data2$dv_c_t1=0] <- rvsctls2$linear.predictors
 data2$rvsctls_stderror2<-NA
 data2$rvsctls_stderror2[data2$dv_c_t1=0] <- rvsctls2$se.fit
```

```
#Try different bandwidths
regress8 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 + dv_c_t1_4
+ i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < .5, method="qr", x=TRUE)
robcov(regress8)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < 0.5, method = "qr", x = TRUE)
```

	n Model L.R.	d.f.	R2	Sigma
3815	1738	9	0.3660	0.103

Residuals:

Min	1Q	Median	3Q	Max
-0.361478	-0.069279	-0.007415	0.070166	0.437598

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-0.03941	0.008428	-4.6760	3.027e-06
dwin	-0.01029	0.011926	-0.8626	3.884e-01
dv_c_t1	0.05999	0.362661	0.1654	8.686e-01
dv_c_t1_2	-4.79939	4.510901	-1.0640	2.874e-01
dv_c_t1_3	-32.58317	20.741323	-1.5709	1.163e-01
dv_c_t1_4	-65.22869	31.476797	-2.0723	3.831e-02
i_dv_c_t1	1.32287	0.493751	2.6792	7.411e-03
i_dv_c_t1_2	-5.88297	5.777664	-1.0182	3.086e-01
i_dv_c_t1_3	72.50381	25.014209	2.8985	3.771e-03
i_dv_c_t1_4	22.77079	36.035538	0.6319	5.275e-01

Residual standard error: 0.103 on 3805 degrees of freedom
Adjusted R-Squared: 0.3645

```
 regress9 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 + dv_c_t1_4
+ i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < .25, method="qr", x=TRUE)
 robcov(regress9)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < 0.25, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
3336	808.5	9	0.2152	0.09721

Residuals:

Min	1Q	Median	3Q	Max
-0.321372	-0.067076	-0.009366	0.064466	0.442755

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-4.560e-02	9.657e-03	-4.7216	2.437e-06
dwin	5.575e-03	1.437e-02	0.3880	6.980e-01
dv_c_t1	-4.275e-01	5.470e-01	-0.7815	4.346e-01
dv_c_t1_2	-1.374e+01	9.196e+00	-1.4945	1.351e-01
dv_c_t1_3	-8.915e+01	5.720e+01	-1.5585	1.192e-01
dv_c_t1_4	-1.794e+02	1.170e+02	-1.5327	1.255e-01
i_dv_c_t1	1.352e+00	8.612e-01	1.5694	1.167e-01
i_dv_c_t1_2	6.100e+00	1.467e+01	0.4158	6.776e-01
i_dv_c_t1_3	1.380e+02	9.150e+01	1.5079	1.317e-01
i_dv_c_t1_4	7.240e+01	1.874e+02	0.3863	6.993e-01

Residual standard error: 0.09721 on 3326 degrees of freedom
Adjusted R-Squared: 0.2131

```
 regress10 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < .2, method="qr", x=TRUE)
 robcov(regress10)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < 0.2, method = "qr", x = TRUE)
```

	n	Model L.R.	d.f.	R2	Sigma
	2828	527.5	9	0.1702	0.09467

Residuals:

Min	1Q	Median	3Q	Max
-0.283913	-0.065766	-0.009841	0.062088	0.441203

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-0.04552	0.01064	-4.2799	1.932e-05
dwin	0.01224	0.01581	0.7743	4.388e-01
dv_c_t1	-0.43700	0.74787	-0.5843	5.590e-01
dv_c_t1_2	-14.42232	15.73322	-0.9167	3.594e-01
dv_c_t1_3	-98.73103	121.38002	-0.8134	4.161e-01
dv_c_t1_4	-215.70613	306.73192	-0.7032	4.820e-01
i_dv_c_t1	0.80527	1.15201	0.6990	4.846e-01
i_dv_c_t1_2	16.16694	24.19785	0.6681	5.041e-01
i_dv_c_t1_3	101.84620	186.06134	0.5474	5.842e-01
i_dv_c_t1_4	150.07118	469.11902	0.3199	7.491e-01

Residual standard error: 0.09467 on 2818 degrees of freedom
Adjusted R-Squared: 0.1675

```
 regress11 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < .15, method="qr", x=TRUE)
 robcov(regress11)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < 0.15, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
2190	300.2	9	0.1281	0.09327

Residuals:

Min	1Q	Median	3Q	Max
-0.279493	-0.065160	-0.009901	0.061216	0.437249

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-0.03824	1.206e-02	-3.1712	0.001539
dwin	0.01624	1.820e-02	0.8923	0.372349
dv_c_t1	0.43391	1.122e+00	0.3869	0.698890
dv_c_t1_2	9.84033	3.099e+01	0.3175	0.750885
dv_c_t1_3	133.49192	3.133e+02	0.4261	0.670043
dv_c_t1_4	491.46762	1.039e+03	0.4729	0.636366
i_dv_c_t1	-1.54271	1.745e+00	-0.8839	0.376847
i_dv_c_t1_2	36.42902	4.864e+01	0.7490	0.453943
i_dv_c_t1_3	-590.41257	4.956e+02	-1.1914	0.233644
i_dv_c_t1_4	960.46936	1.656e+03	0.5800	0.561989

Residual standard error: 0.09327 on 2180 degrees of freedom
Adjusted R-Squared: 0.1245

```
 regress12 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < .1, method="qr", x=TRUE)
 robcov(regress12)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < 0.1, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
1490	110.9	9	0.07174	0.09144

Residuals:

Min	1Q	Median	3Q	Max
-0.27853	-0.06382	-0.01007	0.05994	0.43891

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-4.567e-02	1.478e-02	-3.0896	0.002042
dwin	2.890e-02	2.244e-02	1.2880	0.197933
dv_c_t1	-8.148e-01	2.171e+00	-0.3752	0.707547
dv_c_t1_2	-4.076e+01	9.181e+01	-0.4440	0.657112
dv_c_t1_3	-6.026e+02	1.427e+03	-0.4221	0.672982
dv_c_t1_4	-3.084e+03	7.321e+03	-0.4212	0.673672
i_dv_c_t1	-1.405e+00	3.222e+00	-0.4360	0.662885
i_dv_c_t1_2	1.411e+02	1.352e+02	1.0436	0.296834
i_dv_c_t1_3	-7.578e+02	2.096e+03	-0.3616	0.717667
i_dv_c_t1_4	9.348e+03	1.070e+04	0.8736	0.382472

Residual standard error: 0.09144 on 1480 degrees of freedom
Adjusted R-Squared: 0.06609

```
 regress13 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=margin < .05, method="qr", x=TRUE)
 robcov(regress13)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4,
    data = data2, subset = margin < 0.05, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
764	13.00	9	0.01687	0.08462

Residuals:

Min	1Q	Median	3Q	Max
-0.284226	-0.058756	-0.007943	0.052656	0.238896

Coefficients:

	Value	Std. Error	t	Pr(ltl)
Intercept	-6.220e-02	1.991e-02	-3.1243	0.001850
dwin	4.877e-02	3.210e-02	1.5192	0.129123
dv_c_t1	-5.802e+00	5.680e+00	-1.0216	0.307301
dv_c_t1_2	-4.141e+02	4.601e+02	-0.9000	0.368423
dv_c_t1_3	-1.080e+04	1.374e+04	-0.7858	0.432257
dv_c_t1_4	-9.634e+04	1.357e+05	-0.7099	0.477970
i_dv_c_t1	1.555e+00	8.896e+00	0.1748	0.861249
i_dv_c_t1_2	6.974e+02	7.212e+02	0.9669	0.333880
i_dv_c_t1_3	4.723e+03	2.166e+04	0.2181	0.827444
i_dv_c_t1_4	1.343e+05	2.149e+05	0.6250	0.532189

Residual standard error: 0.08462 on 754 degrees of freedom
Adjusted R-Squared: 0.005139

```
#Try different bandwidths - state FE
 regress14 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev), data=data2, subset=margin < .5, method="qr", x=TRUE)
 robcov(regress14)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev), data = data2, subset = margin <
    0.5, method = "qr", x = TRUE)
```

	n Model L.R.	d.f.	R2	Sigma
3815	2156	58	0.4317	0.09814

Residuals:

Min	1Q	Median	3Q	Max
-0.372653	-0.067130	-0.006857	0.065660	0.418626

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-0.069476	0.02341	-2.96725	0.0030237
dwin	-0.012594	0.01131	-1.11335	0.2656300
dv_c_t1	0.292997	0.34676	0.84496	0.3981882
dv_c_t1_2	-2.413134	4.29849	-0.56139	0.5745642
dv_c_t1_3	-20.523739	19.64414	-1.04478	0.2961934
dv_c_t1_4	-42.674739	29.58479	-1.44246	0.1492573
i_dv_c_t1	0.951502	0.46687	2.03804	0.0416154
i_dv_c_t1_2	-7.457218	5.44649	-1.36918	0.1710252
i_dv_c_t1_3	57.989600	23.32285	2.48639	0.0129479
i_dv_c_t1_4	3.046569	33.69263	0.09042	0.9279564
statesabbrev=AL	-0.014491	0.02900	-0.49961	0.6173819
statesabbrev=AR	0.035266	0.02974	1.18568	0.2358245
statesabbrev=AZ	0.016700	0.02455	0.68037	0.4963129
statesabbrev=CA	0.068615	0.02273	3.01842	0.0025580
statesabbrev=CO	0.015037	0.02461	0.61108	0.5411820
statesabbrev=CT	0.043049	0.02458	1.75124	0.0799865
statesabbrev=DE	0.080750	0.03201	2.52257	0.0116909
statesabbrev=FL	-0.009713	0.02541	-0.38225	0.7022993
statesabbrev=GA	0.013242	0.02774	0.47730	0.6331787
statesabbrev=HI	0.021212	0.03826	0.55444	0.5793080
statesabbrev=IA	0.055006	0.02405	2.28670	0.0222689
statesabbrev=ID	-0.049313	0.02647	-1.86288	0.0625573
statesabbrev=IL	0.058644	0.02310	2.53881	0.0111630
statesabbrev=IN	0.005276	0.02324	0.22701	0.8204274

```
statesabbrev=KS  -0.013554    0.02443 -0.55490 0.5789938
statesabbrev=KY   0.013225    0.02467  0.53613 0.5918982
statesabbrev=LA  -0.013051    0.03667 -0.35589 0.7219407
statesabbrev=MA   0.092711    0.02572  3.60471 0.0003166
statesabbrev=MD   0.048564    0.02564  1.89420 0.0582756
statesabbrev=ME   0.050238    0.03091  1.62519 0.1042069
statesabbrev=MI   0.032620    0.02324  1.40390 0.1604314
statesabbrev=MN   0.082032    0.02351  3.48882 0.0004907
statesabbrev=MO   0.039512    0.02452  1.61113 0.1072350
statesabbrev=MS  -0.011997    0.03428 -0.34994 0.7264069
statesabbrev=MT   0.014122    0.02686  0.52572 0.5991171
statesabbrev=NC   0.006453    0.02329  0.27706 0.7817484
statesabbrev=ND  -0.027556    0.03359 -0.82037 0.4120601
statesabbrev=NE  -0.028706    0.02568 -1.11767 0.2637785
statesabbrev=NH   0.038518    0.03086  1.24798 0.2121150
statesabbrev=NJ   0.057099    0.02376  2.40303 0.0163079
statesabbrev=NM   0.059753    0.02651  2.25420 0.0242408
statesabbrev=NV  -0.008634    0.03486 -0.24764 0.8044235
statesabbrev=NY   0.072147    0.02321  3.10856 0.0018941
statesabbrev=OH   0.047057    0.02326  2.02291 0.0431534
statesabbrev=OK  -0.050901    0.02612 -1.94854 0.0514248
statesabbrev=OR   0.027530    0.02412  1.14124 0.2538442
statesabbrev=PA   0.065094    0.02302  2.82795 0.0047095
statesabbrev=RI   0.087737    0.02931  2.99339 0.0027769
statesabbrev=SC  -0.006619    0.02779 -0.23817 0.8117639
statesabbrev=SD   0.011867    0.02814  0.42170 0.6732689
statesabbrev=TN   0.003930    0.02557  0.15368 0.8778706
statesabbrev=TX   0.000548    0.02433  0.02253 0.9820286
statesabbrev=UT  -0.066702    0.02777 -2.40210 0.0163497
statesabbrev=VA   0.016509    0.02450  0.67380 0.5004791
statesabbrev=VT   0.042108    0.04476  0.94083 0.3468518
statesabbrev=WA   0.070218    0.02458  2.85727 0.0042965
statesabbrev=WI   0.036637    0.02335  1.56938 0.1166444
statesabbrev=WV   0.048764    0.02612  1.86689 0.0619947
statesabbrev=WY  -0.023521    0.03003 -0.78316 0.4335802

Residual standard error: 0.09814 on 3756 degrees of freedom
Adjusted R-Squared: 0.4229
```

```
 regress15 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev), data=data2, subset=margin < .25, method="qr",
x=TRUE)
 robcov(regress15)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev), data = data2, subset = margin <
    0.25, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
3336	1139	58	0.2892	0.0932

Residuals:

Min	1Q	Median	3Q	Max
-0.286800	-0.064383	-0.008563	0.061403	0.437823

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-8.194e-02	0.02583	-3.1730	0.0015226
dwin	5.917e-03	0.01349	0.4387	0.6608823
dv_c_t1	-4.290e-01	0.53224	-0.8060	0.4203225
dv_c_t1_2	-1.578e+01	8.94128	-1.7653	0.0775994
dv_c_t1_3	-1.075e+02	55.45003	-1.9387	0.0526231
dv_c_t1_4	-2.236e+02	113.19952	-1.9751	0.0483384
i_dv_c_t1	1.197e+00	0.81962	1.4605	0.1442614
i_dv_c_t1_2	9.041e+00	13.93182	0.6489	0.5164215
i_dv_c_t1_3	1.532e+02	87.16757	1.7573	0.0789603
i_dv_c_t1_4	1.219e+02	177.91858	0.6851	0.4933281
statesabbrev=AL	1.549e-02	0.03054	0.5072	0.6120476
statesabbrev=AR	6.314e-02	0.03263	1.9348	0.0531002
statesabbrev=AZ	1.904e-02	0.02653	0.7175	0.4731158
statesabbrev=CA	6.569e-02	0.02481	2.6478	0.0081400
statesabbrev=CO	1.789e-02	0.02649	0.6754	0.4994671
statesabbrev=CT	4.470e-02	0.02645	1.6903	0.0910659
statesabbrev=DE	8.215e-02	0.03351	2.4519	0.0142621
statesabbrev=FL	-5.097e-03	0.02735	-0.1864	0.8521724
statesabbrev=GA	3.102e-02	0.03103	0.9995	0.3176195
statesabbrev=HI	7.072e-02	0.03947	1.7916	0.0732827
statesabbrev=IA	5.841e-02	0.02600	2.2469	0.0247133
statesabbrev=ID	-4.602e-02	0.02839	-1.6210	0.1051085
statesabbrev=IL	4.942e-02	0.02522	1.9600	0.0500834
statesabbrev=IN	9.932e-03	0.02533	0.3921	0.6949914

```
statesabbrev=KS -7.944e-03    0.02646 -0.3002 0.7640295
statesabbrev=KY  2.241e-02    0.02733  0.8199 0.4123580
statesabbrev=LA  2.279e-02    0.03543  0.6432 0.5201615
statesabbrev=MA  1.041e-01    0.02822  3.6903 0.0002277
statesabbrev=MD  5.126e-02    0.02771  1.8495 0.0644755
statesabbrev=ME  5.617e-02    0.03344  1.6795 0.0931453
statesabbrev=MI  2.340e-02    0.02510  0.9322 0.3512994
statesabbrev=MN  8.685e-02    0.02562  3.3901 0.0007070
statesabbrev=MO  4.999e-02    0.02645  1.8899 0.0588620
statesabbrev=MS  3.250e-02    0.03210  1.0123 0.3114482
statesabbrev=MT  1.806e-02    0.02855  0.6326 0.5270675
statesabbrev=NC  1.274e-02    0.02544  0.5006 0.6166920
statesabbrev=ND -1.773e-02    0.03524 -0.5032 0.6148481
statesabbrev=NE -2.380e-02    0.02797 -0.8507 0.3949939
statesabbrev=NH  4.125e-02    0.03223  1.2799 0.2006726
statesabbrev=NJ  5.854e-02    0.02589  2.2613 0.0238082
statesabbrev=NM  6.178e-02    0.02837  2.1774 0.0295200
statesabbrev=NV  7.395e-03    0.03435  0.2153 0.8295700
statesabbrev=NY  7.157e-02    0.02545  2.8127 0.0049415
statesabbrev=OH  4.557e-02    0.02532  1.7998 0.0719873
statesabbrev=OK -2.632e-02    0.02780 -0.9467 0.3438715
statesabbrev=OR  3.650e-02    0.02608  1.3997 0.1616870
statesabbrev=PA  6.575e-02    0.02509  2.6202 0.0088276
statesabbrev=RI  1.036e-01    0.03117  3.3241 0.0008967
statesabbrev=SC  1.255e-02    0.02852  0.4399 0.6600735
statesabbrev=SD  1.376e-02    0.03043  0.4521 0.6512112
statesabbrev=TN  2.509e-02    0.02727  0.9200 0.3576243
statesabbrev=TX  2.559e-02    0.02631  0.9727 0.3307895
statesabbrev=UT -6.233e-02    0.02975 -2.0955 0.0362015
statesabbrev=VA  1.936e-02    0.02635  0.7346 0.4626358
statesabbrev=VT  3.513e-02    0.04882  0.7196 0.4718314
statesabbrev=WA  6.728e-02    0.02631  2.5573 0.0105934
statesabbrev=WI  3.987e-02    0.02549  1.5641 0.1178947
statesabbrev=WV  5.996e-02    0.02778  2.1583 0.0309746
statesabbrev=WY -2.195e-02    0.03169 -0.6925 0.4886467

Residual standard error: 0.0932 on 3277 degrees of freedom
Adjusted R-Squared: 0.2766
```

```
  regress16 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev), data=data2, subset=margin < .2, method="qr", x=TRUE)
  robcov(regress16)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev), data = data2, subset = margin <
    0.2, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
2828	789.6	58	0.2436	0.09118

Residuals:

Min	1Q	Median	3Q	Max
-0.277295	-0.063031	-0.007523	0.058213	0.438399

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-7.789e-02	0.02785	-2.7965	0.005201
dwin	1.290e-02	0.01477	0.8733	0.382560
dv_c_t1	-6.152e-01	0.71779	-0.8570	0.391513
dv_c_t1_2	-1.924e+01	15.02979	-1.2800	0.200651
dv_c_t1_3	-1.318e+02	115.55567	-1.1407	0.254084
dv_c_t1_4	-2.818e+02	291.15661	-0.9677	0.333278
i_dv_c_t1	1.074e+00	1.08823	0.9870	0.323712
i_dv_c_t1_2	1.637e+01	22.90259	0.7146	0.474903
i_dv_c_t1_3	1.732e+02	176.15073	0.9832	0.325593
i_dv_c_t1_4	1.232e+02	444.71104	0.2769	0.781853
statesabbrev=AL	2.572e-02	0.03284	0.7834	0.433473
statesabbrev=AR	5.734e-02	0.03402	1.6856	0.091982
statesabbrev=AZ	7.048e-03	0.02830	0.2491	0.803338
statesabbrev=CA	5.669e-02	0.02668	2.1245	0.033716
statesabbrev=CO	1.135e-02	0.02848	0.3985	0.690297
statesabbrev=CT	3.629e-02	0.02813	1.2901	0.197110
statesabbrev=DE	5.682e-02	0.03431	1.6560	0.097838
statesabbrev=FL	8.137e-03	0.02949	0.2760	0.782581
statesabbrev=GA	2.502e-02	0.03320	0.7535	0.451233
statesabbrev=HI	9.610e-02	0.03774	2.5462	0.010942
statesabbrev=IA	5.061e-02	0.02773	1.8250	0.068110
statesabbrev=ID	-5.479e-02	0.03079	-1.7794	0.075288
statesabbrev=IL	4.161e-02	0.02695	1.5442	0.122660
statesabbrev=IN	3.866e-03	0.02713	0.1425	0.886697
statesabbrev=KS	-1.465e-02	0.02819	-0.5197	0.603320

```
statesabbrev=KY  2.278e-02     0.02968   0.7673 0.442940
statesabbrev=LA  1.329e-02     0.04009   0.3316 0.740234
statesabbrev=MA  9.444e-02     0.03063   3.0837 0.002064
statesabbrev=MD  4.470e-02     0.02933   1.5239 0.127647
statesabbrev=ME  4.636e-02     0.03532   1.3127 0.189394
statesabbrev=MI  1.752e-02     0.02690   0.6512 0.514999
statesabbrev=MN  7.958e-02     0.02758   2.8856 0.003936
statesabbrev=MO  3.989e-02     0.02834   1.4073 0.159460
statesabbrev=MS  3.828e-02     0.03708   1.0324 0.301970
statesabbrev=MT  1.206e-02     0.03009   0.4007 0.688684
statesabbrev=NC  1.143e-02     0.02733   0.4180 0.675958
statesabbrev=ND -1.060e-02     0.03512  -0.3019 0.762785
statesabbrev=NE -3.079e-02     0.02991  -1.0295 0.303352
statesabbrev=NH  3.953e-02     0.03455   1.1441 0.252688
statesabbrev=NJ  5.341e-02     0.02783   1.9188 0.055108
statesabbrev=NM  4.843e-02     0.03046   1.5900 0.111952
statesabbrev=NV  1.296e-02     0.03437   0.3770 0.706202
statesabbrev=NY  5.565e-02     0.02737   2.0330 0.042145
statesabbrev=OH  3.814e-02     0.02730   1.3971 0.162508
statesabbrev=OK -2.111e-02     0.02969  -0.7110 0.477115
statesabbrev=OR  2.816e-02     0.02785   1.0111 0.312058
statesabbrev=PA  6.288e-02     0.02689   2.3384 0.019437
statesabbrev=RI  8.940e-02     0.03550   2.5184 0.011846
statesabbrev=SC  1.232e-03     0.03042   0.0405 0.967695
statesabbrev=SD  6.985e-03     0.03186   0.2193 0.826458
statesabbrev=TN  1.248e-02     0.02949   0.4232 0.672193
statesabbrev=TX  1.679e-02     0.02802   0.5994 0.548974
statesabbrev=UT -6.906e-02     0.03120  -2.2136 0.026939
statesabbrev=VA  1.321e-02     0.02812   0.4699 0.638478
statesabbrev=VT  4.221e-02     0.06019   0.7013 0.483150
statesabbrev=WA  6.169e-02     0.02808   2.1968 0.028119
statesabbrev=WI  2.995e-02     0.02719   1.1013 0.270848
statesabbrev=WV  5.351e-02     0.02946   1.8165 0.069403
statesabbrev=WY -2.388e-02     0.03373  -0.7081 0.478919

Residual standard error: 0.09118 on 2769 degrees of freedom
Adjusted R-Squared: 0.2278
```

```
  regress17 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev), data=data2, subset=margin < .15, method="qr",
x=TRUE)
 robcov(regress17)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev), data = data2, subset = margin <
    0.15, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
2190	507.9	58	0.207	0.08996

Residuals:

Min	1Q	Median	3Q	Max
-0.269609	-0.061871	-0.007913	0.058429	0.425770

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-7.036e-02	2.866e-02	-2.45498	0.014169
dwin	1.344e-02	1.692e-02	0.79449	0.426999
dv_c_t1	2.321e-01	1.082e+00	0.21446	0.830212
dv_c_t1_2	4.227e+00	2.982e+01	0.14176	0.887286
dv_c_t1_3	9.192e+01	3.011e+02	0.30531	0.760158
dv_c_t1_4	3.996e+02	9.978e+02	0.40051	0.688823
i_dv_c_t1	-8.618e-01	1.643e+00	-0.52468	0.599858
i_dv_c_t1_2	2.597e+01	4.646e+01	0.55900	0.576218
i_dv_c_t1_3	-3.853e+02	4.720e+02	-0.81632	0.414406
i_dv_c_t1_4	5.135e+02	1.596e+03	0.32166	0.747745
statesabbrev=AL	1.716e-02	3.347e-02	0.51282	0.608127
statesabbrev=AR	7.550e-02	3.721e-02	2.02927	0.042554
statesabbrev=AZ	1.070e-02	2.831e-02	0.37805	0.705428
statesabbrev=CA	5.935e-02	2.697e-02	2.20068	0.027865
statesabbrev=CO	-2.877e-03	2.901e-02	-0.09917	0.921009
statesabbrev=CT	3.261e-02	2.841e-02	1.14800	0.251099
statesabbrev=DE	5.552e-02	3.430e-02	1.61851	0.105700
statesabbrev=FL	1.671e-02	3.084e-02	0.54191	0.587936
statesabbrev=GA	5.932e-02	3.341e-02	1.77547	0.075963
statesabbrev=HI	9.653e-02	3.785e-02	2.55047	0.010827
statesabbrev=IA	5.053e-02	2.782e-02	1.81640	0.069450
statesabbrev=ID	-5.853e-02	3.119e-02	-1.87690	0.060668
statesabbrev=IL	4.953e-02	2.733e-02	1.81239	0.070067
statesabbrev=IN	4.934e-03	2.733e-02	0.18057	0.856725

```
statesabbrev=KS -1.756e-02  2.832e-02 -0.62000 0.535325
statesabbrev=KY  3.366e-02  3.176e-02  1.05988 0.289318
statesabbrev=LA  1.092e-02  4.446e-02  0.24570 0.805937
statesabbrev=MA  8.408e-02  3.237e-02  2.59764 0.009451
statesabbrev=MD  5.670e-02  3.043e-02  1.86331 0.062557
statesabbrev=ME  4.672e-02  3.538e-02  1.32069 0.186748
statesabbrev=MI  1.087e-02  2.715e-02  0.40049 0.688837
statesabbrev=MN  7.870e-02  2.783e-02  2.82827 0.004724
statesabbrev=MO  2.756e-02  2.868e-02  0.96081 0.336759
statesabbrev=MS  4.619e-02  3.903e-02  1.18350 0.236744
statesabbrev=MT  1.209e-02  3.117e-02  0.38781 0.698195
statesabbrev=NC  8.516e-03  2.756e-02  0.30895 0.757391
statesabbrev=ND  2.608e-03  4.152e-02  0.06282 0.949912
statesabbrev=NE -3.907e-02  3.069e-02 -1.27294 0.203178
statesabbrev=NH  3.023e-02  3.696e-02  0.81794 0.413485
statesabbrev=NJ  5.121e-02  2.864e-02  1.78802 0.073914
statesabbrev=NM  4.528e-02  3.152e-02  1.43633 0.151054
statesabbrev=NV  1.147e-02  3.787e-02  0.30288 0.762009
statesabbrev=NY  4.931e-02  2.774e-02  1.77743 0.075640
statesabbrev=OH  3.952e-02  2.777e-02  1.42348 0.154744
statesabbrev=OK -6.638e-03  3.138e-02 -0.21150 0.832515
statesabbrev=OR  3.024e-02  2.806e-02  1.07773 0.281277
statesabbrev=PA  5.648e-02  2.713e-02  2.08160 0.037498
statesabbrev=RI  8.317e-02  3.632e-02  2.28962 0.022141
statesabbrev=SC  9.968e-03  3.088e-02  0.32284 0.746851
statesabbrev=SD -1.802e-03  3.326e-02 -0.05419 0.956791
statesabbrev=TN  2.145e-02  3.077e-02  0.69695 0.485908
statesabbrev=TX  1.181e-02  2.853e-02  0.41373 0.679114
statesabbrev=UT -5.751e-02  3.240e-02 -1.77514 0.076018
statesabbrev=VA  1.519e-02  2.848e-02  0.53341 0.593804
statesabbrev=VT  3.487e-02  7.173e-02  0.48618 0.626887
statesabbrev=WA  5.860e-02  2.849e-02  2.05709 0.039799
statesabbrev=WI  2.752e-02  2.754e-02  0.99901 0.317902
statesabbrev=WV  5.451e-02  3.053e-02  1.78554 0.074316
statesabbrev=WY -2.693e-02  3.495e-02 -0.77059 0.441034

Residual standard error: 0.08996 on 2131 degrees of freedom
Adjusted R-Squared: 0.1854
```

```
  regress18 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev), data=data2, subset=margin < .1, method="qr", x=TRUE)
  robcov(regress18)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev), data = data2, subset = margin <
    0.1, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
1490	275.9	58	0.1690	0.08798

Residuals:

Min	1Q	Median	3Q	Max
-0.263435	-0.059366	-0.008717	0.056287	0.431452

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-6.839e-02	3.518e-02	-1.94418	0.05207
dwin	2.427e-02	2.101e-02	1.15481	0.24836
dv_c_t1	-1.240e-01	2.052e+00	-0.06042	0.95183
dv_c_t1_2	-3.996e+00	8.612e+01	-0.04640	0.96300
dv_c_t1_3	3.301e+01	1.335e+03	0.02473	0.98027
dv_c_t1_4	2.994e+02	6.824e+03	0.04387	0.96501
i_dv_c_t1	-1.835e+00	3.016e+00	-0.60853	0.54293
i_dv_c_t1_2	9.630e+01	1.274e+02	0.75569	0.44996
i_dv_c_t1_3	-1.349e+03	1.985e+03	-0.67961	0.49686
i_dv_c_t1_4	6.049e+03	1.011e+04	0.59811	0.54986
statesabbrev=AL	1.599e-02	4.034e-02	0.39645	0.69184
statesabbrev=AR	1.003e-01	4.178e-02	2.40171	0.01645
statesabbrev=AZ	7.199e-03	3.400e-02	0.21173	0.83234
statesabbrev=CA	4.584e-02	3.255e-02	1.40849	0.15920
statesabbrev=CO	-9.312e-03	3.432e-02	-0.27132	0.78619
statesabbrev=CT	2.096e-02	3.394e-02	0.61763	0.53692
statesabbrev=DE	4.957e-02	3.877e-02	1.27861	0.20124
statesabbrev=FL	1.467e-02	3.714e-02	0.39491	0.69297
statesabbrev=GA	4.889e-02	3.968e-02	1.23224	0.21806
statesabbrev=HI	8.314e-02	6.435e-02	1.29211	0.19653
statesabbrev=IA	4.914e-02	3.327e-02	1.47687	0.13993
statesabbrev=ID	-6.805e-02	3.706e-02	-1.83612	0.06655
statesabbrev=IL	3.903e-02	3.307e-02	1.18017	0.23813
statesabbrev=IN	1.027e-02	3.262e-02	0.31469	0.75304
statesabbrev=KS	-3.011e-02	3.404e-02	-0.88465	0.37649

```
statesabbrev=KY  3.735e-02  3.773e-02  0.99004  0.32232
statesabbrev=LA  4.048e-02  3.778e-02  1.07145  0.28415
statesabbrev=MA  5.940e-02  3.991e-02  1.48831  0.13689
statesabbrev=MD  4.319e-02  3.625e-02  1.19138  0.23370
statesabbrev=ME  5.965e-02  4.314e-02  1.38256  0.16701
statesabbrev=MI  9.349e-03  3.265e-02  0.28638  0.77463
statesabbrev=MN  6.833e-02  3.349e-02  2.04002  0.04153
statesabbrev=MO  3.075e-02  3.463e-02  0.88812  0.37462
statesabbrev=MS  8.783e-02  4.591e-02  1.91308  0.05594
statesabbrev=MT  6.829e-03  3.886e-02  0.17572  0.86054
statesabbrev=NC  5.968e-03  3.297e-02  0.18102  0.85638
statesabbrev=ND -3.385e-03  4.473e-02 -0.07568  0.93968
statesabbrev=NE -6.593e-02  3.521e-02 -1.87231  0.06137
statesabbrev=NH  4.482e-02  4.377e-02  1.02411  0.30596
statesabbrev=NJ  4.346e-02  3.455e-02  1.25772  0.20870
statesabbrev=NM  4.455e-02  3.897e-02  1.14301  0.25323
statesabbrev=NV -1.235e-03  4.480e-02 -0.02757  0.97801
statesabbrev=NY  3.709e-02  3.323e-02  1.11608  0.26457
statesabbrev=OH  3.794e-02  3.363e-02  1.12794  0.25954
statesabbrev=OK -1.111e-02  3.901e-02 -0.28477  0.77586
statesabbrev=OR  2.521e-02  3.405e-02  0.74044  0.45915
statesabbrev=PA  4.870e-02  3.283e-02  1.48347  0.13817
statesabbrev=RI  1.077e-01  5.223e-02  2.06277  0.03931
statesabbrev=SC -1.634e-02  3.681e-02 -0.44401  0.65711
statesabbrev=SD -8.602e-03  4.154e-02 -0.20711  0.83596
statesabbrev=TN  2.166e-02  3.789e-02  0.57171  0.56761
statesabbrev=TX  4.464e-03  3.453e-02  0.12929  0.89715
statesabbrev=UT -5.472e-02  3.880e-02 -1.41010  0.15873
statesabbrev=VA -3.745e-03  3.431e-02 -0.10915  0.91310
statesabbrev=VT  7.933e-02  7.571e-02  1.04784  0.29489
statesabbrev=WA  6.335e-02  3.396e-02  1.86568  0.06229
statesabbrev=WI  2.267e-02  3.319e-02  0.68317  0.49461
statesabbrev=WV  4.969e-02  3.816e-02  1.30205  0.19311
statesabbrev=WY -4.721e-02  3.625e-02 -1.30251  0.19295

Residual standard error: 0.08798 on 1431 degrees of freedom
Adjusted R-Squared: 0.1354
```

```
 regress19 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev), data=data2, subset=margin < .05, method="qr",
x=TRUE)
 robcov(regress19)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev), data = data2, subset = margin <
    0.05, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
764	147.8	57	0.1759	0.08006

Residuals:

Min	1Q	Median	3Q	Max
-0.24921	-0.05166	-0.00791	0.04879	0.24349

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-2.193e-02	5.415e-02	-0.4049279	0.68565
dwin	3.543e-02	2.964e-02	1.1955944	0.23226
dv_c_t1	-2.611e+00	5.537e+00	-0.4715570	0.63739
dv_c_t1_2	-2.065e+02	4.478e+02	-0.4610912	0.64488
dv_c_t1_3	-6.107e+03	1.342e+04	-0.4551570	0.64914
dv_c_t1_4	-6.189e+04	1.328e+05	-0.4659462	0.64140
i_dv_c_t1	-1.088e+00	8.558e+00	-0.1271855	0.89883
i_dv_c_t1_2	4.721e+02	6.778e+02	0.6964819	0.48636
i_dv_c_t1_3	1.389e+01	2.111e+04	0.0006581	0.99948
i_dv_c_t1_4	1.034e+05	2.025e+05	0.5105222	0.60985
statesabbrev=AL	-3.299e-02	6.285e-02	-0.5249477	0.59978
statesabbrev=AR	3.857e-02	6.370e-02	0.6055055	0.54504
statesabbrev=AZ	-7.266e-02	5.170e-02	-1.4054324	0.16033
statesabbrev=CA	6.430e-03	5.068e-02	0.1268854	0.89907
statesabbrev=CO	-6.255e-02	5.138e-02	-1.2174740	0.22383
statesabbrev=CT	-3.121e-02	5.187e-02	-0.6016150	0.54762
statesabbrev=DE	-2.672e-02	6.003e-02	-0.4450685	0.65641
statesabbrev=FL	-5.093e-02	5.411e-02	-0.9411994	0.34692
statesabbrev=GA	2.514e-02	6.250e-02	0.4022949	0.68759
statesabbrev=IA	-1.184e-02	5.105e-02	-0.2318947	0.81669
statesabbrev=ID	-1.165e-01	5.801e-02	-2.0085064	0.04497
statesabbrev=IL	-2.198e-02	5.090e-02	-0.4318229	0.66600
statesabbrev=IN	-4.743e-02	5.032e-02	-0.9425867	0.34621
statesabbrev=KS	-8.986e-02	5.110e-02	-1.7585463	0.07909

```
statesabbrev=KY -1.414e-02  5.529e-02 -0.2556860  0.79827
statesabbrev=LA -1.714e-02  5.669e-02 -0.3023508  0.76247
statesabbrev=MA  5.215e-03  5.811e-02  0.0897438  0.92852
statesabbrev=MD -1.426e-04  5.356e-02 -0.0026634  0.99788
statesabbrev=ME  2.398e-03  6.038e-02  0.0397108  0.96833
statesabbrev=MI -5.106e-02  5.055e-02 -1.0100275  0.31283
statesabbrev=MN  2.014e-02  5.089e-02  0.3957401  0.69242
statesabbrev=MO -5.058e-02  5.351e-02 -0.9451513  0.34490
statesabbrev=MS -1.992e-02  5.551e-02 -0.3588879  0.71979
statesabbrev=MT -2.691e-02  5.469e-02 -0.4921011  0.62280
statesabbrev=NC -6.354e-02  5.093e-02 -1.2475422  0.21261
statesabbrev=ND -4.552e-02  6.135e-02 -0.7420226  0.45832
statesabbrev=NE -1.122e-01  5.440e-02 -2.0620561  0.03957
statesabbrev=NH  8.953e-03  6.581e-02  0.1360302  0.89184
statesabbrev=NJ  5.251e-04  5.297e-02  0.0099134  0.99209
statesabbrev=NM  6.650e-03  6.544e-02  0.1016104  0.91909
statesabbrev=NV -7.695e-03  6.644e-02 -0.1158196  0.90783
statesabbrev=NY -3.203e-02  5.174e-02 -0.6190137  0.53611
statesabbrev=OH -1.416e-02  5.155e-02 -0.2747794  0.78357
statesabbrev=OK -5.605e-02  5.752e-02 -0.9743190  0.33023
statesabbrev=OR  3.225e-03  5.208e-02  0.0619132  0.95065
statesabbrev=PA -5.467e-03  5.086e-02 -0.1074860  0.91443
statesabbrev=RI  1.204e-01  7.338e-02  1.6407290  0.10130
statesabbrev=SC -7.576e-02  5.673e-02 -1.3355043  0.18214
statesabbrev=SD -1.159e-01  5.114e-02 -2.2656675  0.02377
statesabbrev=TN -4.815e-02  5.346e-02 -0.9006413  0.36809
statesabbrev=TX -6.579e-02  5.390e-02 -1.2205609  0.22266
statesabbrev=UT -1.083e-01  5.672e-02 -1.9093487  0.05662
statesabbrev=VA -5.616e-02  5.116e-02 -1.0978120  0.27266
statesabbrev=VT -8.581e-02  5.004e-02 -1.7149779  0.08679
statesabbrev=WA  4.308e-03  5.115e-02  0.0842219  0.93290
statesabbrev=WI -2.428e-02  5.131e-02 -0.4733297  0.63612
statesabbrev=WV -3.164e-02  5.269e-02 -0.6005501  0.54833
statesabbrev=WY -1.065e-01  5.482e-02 -1.9419554  0.05254

Residual standard error: 0.08006 on 706 degrees of freedom
Adjusted R-Squared: 0.1094
```

```
#Try different bandwidths - stateXyear FE
#
#R and Stata obtain the same coefficient estimates but the robust SEs are
different. Due to issues in the R package Design with handling a large number
of dummy variables, the estimates of robust standard errors for models
including stateXyear fixed effects are extremely large.
 data2$stateyear <- paste(data2$statesabbrev,data2$t2_year,sep="")
 data2$stateyear[data2$statesabbrev=='AK' | data2$t2_year==1952] <- "AA.AK.
1952.ref"

 regress20 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
data=data2, method='qr', x=TRUE, subset=margin<.5)
 robcov(regress20)

Linear Regression Model

ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
    data = data2, subset = margin < 0.5, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
3815	5470	590	0.7616	0.06847

```
Residuals:
      Min        1Q     Median        3Q       Max
-3.191e-01 -3.900e-02 -2.360e-14  3.602e-02 4.595e-01
```

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	1.195e-02	1.751e+26	6.827e-29	1
dwin	-1.776e-02	1.119e+12	-1.587e-14	1
dv_c_t1	1.422e-01	5.675e+13	2.506e-15	1
dv_c_t1_2	-5.402e+00	5.971e+14	-9.048e-15	1
dv_c_t1_3	-3.202e+01	3.129e+15	-1.023e-14	1
dv_c_t1_4	-5.371e+01	4.168e+15	-1.289e-14	1
i_dv_c_t1	1.132e+00	7.144e+13	1.584e-14	1
i_dv_c_t1_2	-4.884e+00	5.888e+14	-8.294e-15	1
i_dv_c_t1_3	7.302e+01	3.927e+15	1.860e-14	1
i_dv_c_t1_4	8.988e+00	4.216e+15	2.132e-15	1
statesabbrev=AL	-2.359e-01	1.751e+26	-1.347e-27	1
statesabbrev=AR	-5.025e-02	6.438e+26	-7.805e-29	1
statesabbrev=AZ	-1.566e-01	1.751e+26	-8.944e-28	1
statesabbrev=CA	5.182e-02	9.462e+26	5.477e-29	1

```
statesabbrev=CO   -1.241e-01   1.751e+26  -7.091e-28              1
statesabbrev=CT   -7.360e-02   1.751e+26  -4.204e-28              1
statesabbrev=DE   -5.222e-03   1.751e+26  -2.983e-29              1
statesabbrev=FL    2.157e-02   6.873e+26   3.139e-29              1
statesabbrev=GA   -2.738e-02   4.749e+27  -5.766e-30              1
statesabbrev=HI   -6.576e-02   1.100e+28  -5.981e-30              1
statesabbrev=IA   -1.067e-01   1.751e+26  -6.092e-28              1
statesabbrev=ID   -1.454e-01   1.751e+26  -8.306e-28              1
statesabbrev=IL   -2.421e-02   1.751e+26  -1.383e-28              1
statesabbrev=IN   -7.949e-02   1.751e+26  -4.540e-28              1
statesabbrev=KS   -1.713e-01   1.751e+26  -9.787e-28              1
statesabbrev=KY   -3.863e-02   1.751e+26  -2.206e-28              1
statesabbrev=LA    1.595e-02   2.605e+27   6.124e-30              1
statesabbrev=MA   -7.480e-02   1.751e+26  -4.273e-28              1
statesabbrev=MD   -6.497e-02   1.751e+26  -3.711e-28              1
statesabbrev=ME   -1.456e-01   1.751e+26  -8.317e-28              1
statesabbrev=MI   -6.815e-02   1.751e+26  -3.893e-28              1
statesabbrev=MN   -5.521e-02   1.751e+26  -3.154e-28              1
statesabbrev=MO   -4.697e-02   1.751e+26  -2.683e-28              1
statesabbrev=MS   -3.647e-01   1.751e+26  -2.083e-27              1
statesabbrev=MT   -1.178e-01   1.751e+26  -6.730e-28              1
statesabbrev=NC   -9.141e-02   1.751e+26  -5.221e-28              1
statesabbrev=ND   -1.208e-01   6.387e+27  -1.891e-29              1
statesabbrev=NE   -1.538e-01   1.751e+26  -8.788e-28              1
statesabbrev=NH   -7.767e-02   1.751e+26  -4.436e-28              1
statesabbrev=NJ   -5.323e-02   1.751e+26  -3.040e-28              1
statesabbrev=NM    1.323e-02   1.283e+28   1.032e-30              1
statesabbrev=NV   -1.367e-01   1.751e+26  -7.806e-28              1
statesabbrev=NY   -1.031e-01   1.751e+26  -5.889e-28              1
statesabbrev=OH   -2.489e-02   1.751e+26  -1.422e-28              1
statesabbrev=OK   -3.832e-02   1.751e+26  -2.189e-28              1
statesabbrev=OR   -9.018e-02   1.751e+26  -5.151e-28              1
statesabbrev=PA   -2.697e-02   1.751e+26  -1.540e-28              1
statesabbrev=RI   -6.893e-02   1.751e+26  -3.937e-28              1
statesabbrev=SC    7.892e-04   3.065e+27   2.575e-31              1
statesabbrev=SD   -1.643e-01   1.751e+26  -9.383e-28              1
statesabbrev=TN   -1.448e-01   1.751e+26  -8.270e-28              1
statesabbrev=TX   -2.723e-01   1.751e+26  -1.555e-27              1
statesabbrev=UT   -1.086e-01   1.751e+26  -6.202e-28              1
statesabbrev=VA   -2.868e-03   2.881e+27  -9.953e-31              1
statesabbrev=VT   -1.454e-01   1.751e+26  -8.307e-28              1
statesabbrev=WA    3.559e-02   1.386e+27   2.568e-29              1
statesabbrev=WI   -9.640e-02   1.751e+26  -5.506e-28              1
statesabbrev=WV   -5.913e-03   1.751e+26  -3.378e-29              1
statesabbrev=WY   -1.243e-01   1.751e+26  -7.101e-28              1
t2_year=1956       3.432e-02   3.653e+27   9.395e-30              1
```

t2_year=1960	-5.715e-02	1.751e+26	-3.265e-28	1
t2_year=1964	1.248e-01	1.751e+26	7.131e-28	1
t2_year=1968	-2.312e-02	1.751e+26	-1.320e-28	1
t2_year=1972	-1.642e-01	1.751e+26	-9.382e-28	1
t2_year=1976	-1.193e-01	1.751e+26	-6.816e-28	1
t2_year=1980	-1.656e-01	1.751e+26	-9.460e-28	1
t2_year=1984	-1.262e-01	1.751e+26	-7.207e-28	1
t2_year=1988	-1.023e-01	1.751e+26	-5.845e-28	1
t2_year=1992	-7.319e-02	1.751e+26	-4.181e-28	1
t2_year=1996	-5.957e-02	1.751e+26	-3.403e-28	1
t2_year=2000	-1.314e-01	1.751e+26	-7.504e-28	1
t2_year=2004	-3.776e-02	1.751e+26	-2.157e-28	1
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stateyear=AL1960	-6.579e-02	1.751e+26	-3.758e-28	1
stateyear=AL1968	2.720e-01	1.751e+26	1.554e-27	1
stateyear=AL1976	3.819e-01	1.751e+26	2.181e-27	1
stateyear=AL1980	3.688e-01	1.751e+26	2.106e-27	1
stateyear=AL1984	1.878e-01	1.751e+26	1.073e-27	1
stateyear=AL1988	1.341e-01	1.751e+26	7.657e-28	1
stateyear=AL1996	2.574e-01	1.751e+26	1.470e-27	1
stateyear=AL2000	2.599e-01	1.751e+26	1.485e-27	1
stateyear=AL2004	1.362e-01	1.751e+26	7.779e-28	1
stateyear=AR1964	-1.451e-01	6.438e+26	-2.253e-28	1
stateyear=AR1968	3.767e-02	6.438e+26	5.850e-29	1
stateyear=AR1976	1.809e-01	6.438e+26	2.809e-28	1
stateyear=AR1980	2.069e-01	6.438e+26	3.214e-28	1
stateyear=AR1984	4.499e-02	6.438e+26	6.988e-29	1
stateyear=AR1988	-7.429e-03	6.438e+26	-1.154e-29	1
stateyear=AR1996	2.009e-01	6.438e+26	3.121e-28	1
stateyear=AR2000	1.695e-01	6.438e+26	2.633e-28	1
stateyear=AR2004	NA	3.653e+27	NA	NA
stateyear=AZ1956	-2.015e-02	1.751e+26	-1.151e-28	1
stateyear=AZ1960	1.451e-01	1.751e+26	8.287e-28	1
stateyear=AZ1964	1.804e-02	1.751e+26	1.031e-28	1
stateyear=AZ1968	8.460e-02	1.751e+26	4.832e-28	1
stateyear=AZ1976	1.746e-01	1.751e+26	9.974e-28	1
stateyear=AZ1980	1.800e-01	1.751e+26	1.028e-27	1
stateyear=AZ1984	1.323e-01	1.751e+26	7.554e-28	1
stateyear=AZ1988	1.866e-01	1.751e+26	1.066e-27	1
stateyear=AZ1996	2.656e-01	1.751e+26	1.517e-27	1
stateyear=AZ2000	2.834e-01	1.751e+26	1.619e-27	1
stateyear=AZ2004	1.704e-01	3.525e+27	4.835e-29	1
stateyear=CA1956	-1.532e-01	9.462e+26	-1.619e-28	1
stateyear=CA1960	-3.863e-02	9.462e+26	-4.083e-29	1
stateyear=CA1964	-1.064e-01	9.462e+26	-1.125e-28	1
stateyear=CA1976	1.093e-02	9.462e+26	1.155e-29	1

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stateyear=CA1996   7.021e-02  9.462e+26   7.420e-29          1
stateyear=CA2000   1.074e-01  3.653e+27   2.940e-29          1
stateyear=CA2004         NA   1.751e+26          NA         NA
stateyear=C01956  -3.011e-02  1.751e+26  -1.720e-28          1
stateyear=C01960   8.622e-02  1.751e+26   4.925e-28          1
stateyear=C01964   1.194e-01  1.751e+26   6.819e-28          1
stateyear=C01968   6.953e-02  1.751e+26   3.971e-28          1
stateyear=C01976   1.633e-01  1.751e+26   9.329e-28          1
stateyear=C01980   1.594e-01  1.751e+26   9.107e-28          1
stateyear=C01984   1.065e-01  1.751e+26   6.083e-28          1
stateyear=C01988   2.037e-01  1.751e+26   1.164e-27          1
stateyear=C01996   2.279e-01  1.751e+26   1.302e-27          1
stateyear=C02000   2.358e-01  3.653e+27   6.455e-29          1
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stateyear=CT1976   1.209e-01  1.751e+26   6.904e-28          1
stateyear=CT1980   1.403e-01  1.751e+26   8.011e-28          1
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stateyear=CT1996   2.260e-01  1.751e+26   1.291e-27          1
stateyear=CT2000   2.747e-01  3.653e+27   7.520e-29          1
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stateyear=DE1964  -3.271e-02  1.751e+26  -1.868e-28          1
stateyear=DE1968   1.694e-02  1.751e+26   9.678e-29          1
stateyear=DE1972   6.975e-02  1.751e+26   3.984e-28          1
stateyear=DE1976   1.798e-01  1.751e+26   1.027e-27          1
stateyear=DE1980   1.810e-01  1.751e+26   1.034e-27          1
stateyear=DE1984   6.899e-03  1.751e+26   3.941e-29          1
stateyear=DE1988  -3.054e-02  1.751e+26  -1.744e-28          1
stateyear=DE1992   5.420e-02  1.751e+26   3.096e-28          1
stateyear=DE1996   2.178e-01  1.751e+26   1.244e-27          1
stateyear=DE2000   2.614e-01  3.944e+27   6.627e-29          1
stateyear=DE2004   1.485e-01  6.873e+26   2.160e-28          1
stateyear=FL1956  -2.045e-01  6.873e+26  -2.976e-28          1
stateyear=FL1960  -1.054e-01  6.873e+26  -1.534e-28          1
stateyear=FL1964  -2.088e-01  6.873e+26  -3.038e-28          1
stateyear=FL1976   9.301e-02  6.873e+26   1.353e-28          1
stateyear=FL1980  -9.004e-03  6.873e+26  -1.310e-29          1
stateyear=FL1984  -1.199e-01  6.873e+26  -1.744e-28          1
stateyear=FL1988  -9.521e-02  6.873e+26  -1.385e-28          1
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stateyear=FL2004        NA  4.749e+27        NA        NA
stateyear=GA1956  3.289e-02  4.749e+27  6.925e-30         1
stateyear=GA1968 -3.612e-02  4.749e+27 -7.605e-30         1
stateyear=GA1976  1.853e-01  4.749e+27  3.902e-29         1
stateyear=GA1980  1.435e-01  4.749e+27  3.023e-29         1
stateyear=GA1984 -5.833e-02  1.100e+28 -5.305e-30         1
stateyear=GA1988 -4.144e-02  1.100e+28 -3.769e-30         1
stateyear=GA2000  1.430e-01  1.100e+28  1.301e-29         1
stateyear=GA2004        NA  1.100e+28        NA        NA
stateyear=HI1972 -9.131e-03  1.100e+28 -8.305e-31         1
stateyear=HI1976  1.387e-01  1.100e+28  1.262e-29         1
stateyear=HI1980  7.533e-04  3.653e+27  2.062e-31         1
stateyear=HI1988  1.502e-01  1.751e+26  8.580e-28         1
stateyear=HI1996  1.839e-01  1.751e+26  1.051e-27         1
stateyear=HI2000  2.001e-01  1.751e+26  1.143e-27         1
stateyear=HI2004        NA  1.751e+26        NA        NA
stateyear=IA1956  4.219e-03  1.751e+26  2.410e-29         1
stateyear=IA1960  8.056e-02  1.751e+26  4.601e-28         1
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stateyear=IA1968  5.959e-02  1.751e+26  3.404e-28         1
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stateyear=IA1976  1.930e-01  1.751e+26  1.103e-27         1
stateyear=IA1980  1.895e-01  1.751e+26  1.082e-27         1
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stateyear=ID1988  1.255e-01  1.751e+26  7.171e-28         1
stateyear=ID1996  1.349e-01  1.751e+26  7.707e-28         1
stateyear=ID2000  7.091e-02  1.751e+26  4.051e-28         1
stateyear=ID2004  3.624e-02  1.751e+26  2.070e-28         1
stateyear=IL1956 -1.117e-01  1.751e+26 -6.382e-28         1
stateyear=IL1960  6.414e-02  1.751e+26  3.663e-28         1
stateyear=IL1964 -1.127e-02  1.751e+26 -6.440e-29         1
stateyear=IL1968  3.991e-02  1.751e+26  2.280e-28         1
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stateyear=IL1988   6.960e-02   3.653e+27   1.905e-29              1
stateyear=IL1992   2.396e-02   1.751e+26   1.368e-28              1
stateyear=IL1996   1.637e-01   1.751e+26   9.348e-28              1
stateyear=IL2000   1.676e-01   1.751e+26   9.571e-28              1
stateyear=IL2004   8.059e-02   1.751e+26   4.603e-28              1
stateyear=IN1956  -5.944e-02   1.751e+26  -3.395e-28              1
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stateyear=IN1968   1.617e-01   1.751e+26   9.235e-28              1
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stateyear=IN1996   1.217e-01   1.751e+26   6.954e-28              1
stateyear=IN2000   1.451e-01   1.751e+26   8.285e-28              1
stateyear=IN2004   3.398e-02   1.751e+26   1.941e-28              1
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stateyear=KS1960   1.064e-01   1.751e+26   6.077e-28              1
stateyear=KS1964   1.224e-01   1.751e+26   6.992e-28              1
stateyear=KS1968   1.209e-01   1.751e+26   6.906e-28              1
stateyear=KS1976   2.640e-01   1.751e+26   1.508e-27              1
stateyear=KS1980   1.970e-01   1.751e+26   1.125e-27              1
stateyear=KS1984   1.219e-01   1.751e+26   6.962e-28              1
stateyear=KS1988   1.948e-01   3.653e+27   5.332e-29              1
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stateyear=KS1996   1.639e-01   1.751e+26   9.364e-28              1
stateyear=KS2000   2.241e-01   1.751e+26   1.280e-27              1
stateyear=KS2004   1.289e-01   1.751e+26   7.364e-28              1
stateyear=KY1956  -8.628e-02   1.751e+26  -4.928e-28              1
stateyear=KY1960  -3.881e-02   1.751e+26  -2.217e-28              1
stateyear=KY1964   4.147e-02   1.751e+26   2.369e-28              1
stateyear=KY1968  -4.541e-03   1.751e+26  -2.594e-29              1
stateyear=KY1976   1.001e-01   1.751e+26   5.716e-28              1
stateyear=KY1980   1.728e-01   1.751e+26   9.871e-28              1
stateyear=KY1984   1.849e-04   1.751e+26   1.056e-30              1
stateyear=KY1988   4.838e-02   4.929e+27   9.815e-30              1
stateyear=KY1992   1.080e-01   2.605e+27   4.144e-29              1
stateyear=KY1996   1.709e-01   2.605e+27   6.561e-29              1
stateyear=KY2000   1.083e-01   2.605e+27   4.159e-29              1
stateyear=KY2004   4.758e-03   2.605e+27   1.826e-30              1
stateyear=LA1956  -3.653e-01   2.605e+27  -1.402e-28              1
stateyear=LA1960  -1.605e-01   2.605e+27  -6.161e-29              1
stateyear=LA1964  -2.747e-01   3.653e+27  -7.520e-29              1
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stateyear=LA1988   1.147e-01   1.751e+26   6.550e-28          1
stateyear=LA2000   5.437e-02   1.751e+26   3.106e-28          1
stateyear=LA2004          NA   1.751e+26          NA         NA
stateyear=MA1956  -8.782e-02   1.751e+26  -5.016e-28          1
stateyear=MA1960   1.960e-01   1.751e+26   1.119e-27          1
stateyear=MA1964   1.799e-01   1.751e+26   1.027e-27          1
stateyear=MA1976   2.186e-01   1.751e+26   1.248e-27          1
stateyear=MA1980   1.651e-01   3.653e+27   4.518e-29          1
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stateyear=UT1976  3.529e-02  2.881e+27  1.225e-29         1
stateyear=UT1980  8.484e-03  2.881e+27  2.945e-30         1
stateyear=UT1984  2.231e-02  2.881e+27  7.744e-30         1
stateyear=UT1988  3.981e-02  2.881e+27  1.382e-29         1
stateyear=UT1996  4.655e-02  2.881e+27  1.616e-29         1
stateyear=UT2000  7.670e-02  2.881e+27  2.662e-29         1
stateyear=UT2004 -5.666e-02  2.881e+27 -1.966e-29         1
stateyear=VA1956 -1.637e-01  2.881e+27 -5.680e-29         1
stateyear=VA1960 -6.364e-02  3.653e+27 -1.742e-29         1
stateyear=VA1964 -1.009e-01  1.751e+26 -5.763e-28         1
stateyear=VA1968 -6.695e-02  1.751e+26 -3.824e-28         1
stateyear=VA1976  1.249e-01  1.751e+26  7.137e-28         1
stateyear=VA1980  1.125e-01  1.751e+26  6.427e-28         1
stateyear=VA1984  8.994e-03  1.751e+26  5.137e-29         1
stateyear=VA1988 -5.570e-04  1.751e+26 -3.182e-30         1
stateyear=VA1996  4.812e-02  3.819e+27  1.260e-29         1
stateyear=VA2000  8.699e-02  1.386e+27  6.276e-29         1
stateyear=VA2004        NA  1.386e+27         NA        NA
stateyear=VT1956 -7.459e-02  1.386e+27 -5.382e-29         1
stateyear=VT1960  1.050e-01  1.386e+27  7.573e-29         1
stateyear=VT1964  1.969e-01  1.386e+27  1.421e-28         1
stateyear=VT1968  1.726e-01  1.386e+27  1.245e-28         1
stateyear=VT1976  2.188e-01  1.386e+27  1.578e-28         1
stateyear=VT1980  3.605e-01  1.386e+27  2.601e-28         1
stateyear=VT1984  2.555e-01  3.653e+27  6.993e-29         1
stateyear=WA1956 -1.049e-01  1.751e+26 -5.993e-28         1
stateyear=WA1960  1.397e-03  1.751e+26  7.981e-30         1
stateyear=WA1964 -4.057e-03  1.751e+26 -2.317e-29         1
stateyear=WA1968 -8.238e-02  1.751e+26 -4.706e-28         1
stateyear=WA1976  9.474e-03  1.751e+26  5.411e-29         1
stateyear=WA1980  3.491e-02  1.751e+26  1.994e-28         1
stateyear=WA1988  1.418e-02  1.751e+26  8.099e-29         1
stateyear=WA1996  7.702e-02  1.751e+26  4.399e-28         1
stateyear=WA2000  8.002e-02  1.751e+26  4.571e-28         1
stateyear=WA2004        NA  1.751e+26         NA        NA
stateyear=WI1956 -5.825e-02  3.653e+27 -1.594e-29         1
stateyear=WI1960  1.071e-01  1.751e+26  6.118e-28         1
stateyear=WI1968  1.018e-01  1.751e+26  5.815e-28         1
stateyear=WI1972  2.511e-01  1.751e+26  1.434e-27         1
stateyear=WI1976  1.609e-01  1.751e+26  9.192e-28         1
stateyear=WI1980  2.057e-01  1.751e+26  1.175e-27         1
stateyear=WI1984  1.562e-01  1.751e+26  8.923e-28         1
stateyear=WI1988  1.909e-01  1.751e+26  1.090e-27         1
stateyear=WI1996  2.436e-01  1.751e+26  1.392e-27         1
stateyear=WI2000  2.094e-01  1.751e+26  1.196e-27         1
stateyear=WI2004  1.297e-01  1.751e+26  7.410e-28         1
```

```
stateyear=WV1956 -1.107e-01  1.751e+26 -6.324e-28          1
stateyear=WV1960  3.331e-02  1.751e+26  1.903e-28          1
stateyear=WV1964  1.574e-02  1.751e+26  8.989e-29          1
stateyear=WV1972  7.359e-02  1.751e+26  4.203e-28          1
stateyear=WV1976  1.191e-01  1.751e+26  6.803e-28          1
stateyear=WV1980  1.262e-01  1.751e+26  7.209e-28          1
stateyear=WV1984 -4.410e-03  1.751e+26 -2.519e-29          1
stateyear=WV1988  5.092e-02  1.751e+26  2.908e-28          1
stateyear=WV1992  6.369e-02  1.751e+26  3.638e-28          1
stateyear=WV1996  7.559e-02  1.751e+26  4.318e-28          1
stateyear=WV2000 -7.496e-02  1.751e+26 -4.282e-28          1
stateyear=WV2004 -4.373e-02  1.751e+26 -2.498e-28          1
stateyear=WY1956         NA  6.438e+26         NA         NA
stateyear=WY1960  1.301e-01  9.462e+26  1.375e-28          1
stateyear=WY1964  1.011e-01  6.873e+26  1.472e-28          1
stateyear=WY1968  3.032e-02  4.749e+27  6.384e-30          1
stateyear=WY1972  9.693e-02  1.100e+28  8.816e-30          1
stateyear=WY1976  1.099e-01  2.605e+27  4.219e-29          1
stateyear=WY1980  1.214e-01  6.387e+27  1.901e-29          1
stateyear=WY1984  1.007e-01  1.283e+28  7.852e-30          1
stateyear=WY1988  1.738e-01  3.065e+27  5.670e-29          1
stateyear=WY1992  1.650e-01  2.881e+27  5.727e-29          1
stateyear=WY1996  1.203e-01  1.386e+27  8.682e-29          1
stateyear=WY2000  7.503e-02  3.653e+27  2.054e-29          1
stateyear=WY2004         NA  1.751e+26         NA         NA
```

Residual standard error: 0.06847 on 3224 degrees of freedom
Adjusted R-Squared: 0.718

```
 regress21 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
data=data2, method='qr', x=TRUE, subset=margin<.25)
 robcov(regress21)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
    data = data2, subset = margin < 0.25, method = "qr", x = TRUE)
```

	n Model L.R.	d.f.	R2	Sigma
	3336	4387	579	0.7315	0.06228

Residuals:

Min	1Q	Median	3Q	Max
-2.808e-01	-3.524e-02	-4.011e-15	3.086e-02	4.804e-01

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-7.191e-02	3.662e+26	-1.964e-28	1
dwin	-4.263e-03	2.028e+12	-2.102e-15	1
dv_c_t1	-2.799e-01	1.440e+14	-1.944e-15	1
dv_c_t1_2	-1.378e+01	1.964e+15	-7.018e-15	1
dv_c_t1_3	-8.992e+01	9.810e+15	-9.166e-15	1
dv_c_t1_4	-1.795e+02	1.953e+16	-9.187e-15	1
i_dv_c_t1	1.044e+00	2.766e+14	3.773e-15	1
i_dv_c_t1_2	9.047e+00	1.475e+15	6.136e-15	1
i_dv_c_t1_3	1.157e+02	1.905e+16	6.076e-15	1
i_dv_c_t1_4	1.324e+02	1.925e+16	6.879e-15	1
statesabbrev=AL	-2.014e-02	4.651e+26	-4.330e-29	1
statesabbrev=AR	2.402e-02	1.044e+27	2.300e-29	1
statesabbrev=AZ	-7.933e-02	3.662e+26	-2.166e-28	1
statesabbrev=CA	1.165e-01	6.500e+26	1.792e-28	1
statesabbrev=CO	-4.489e-02	3.662e+26	-1.226e-28	1
statesabbrev=CT	6.420e-03	3.662e+26	1.753e-29	1
statesabbrev=DE	7.303e-02	3.662e+26	1.994e-28	1
statesabbrev=FL	9.029e-02	1.466e+27	6.159e-29	1
statesabbrev=GA	6.792e-02	7.196e+27	9.439e-30	1
statesabbrev=HI	2.535e-02	2.964e+27	8.556e-30	1
statesabbrev=IA	-2.781e-02	3.662e+26	-7.593e-29	1
statesabbrev=ID	-6.513e-02	3.662e+26	-1.779e-28	1
statesabbrev=IL	5.415e-02	3.662e+26	1.479e-28	1
statesabbrev=IN	-8.901e-04	3.662e+26	-2.430e-30	1

```
statesabbrev=KS  -9.291e-02  3.662e+26 -2.537e-28        1
statesabbrev=KY   3.889e-02  3.662e+26  1.062e-28        1
statesabbrev=LA   8.422e-02  2.368e+28  3.557e-30        1
statesabbrev=MA   9.480e-03  3.662e+26  2.589e-29        1
statesabbrev=MD   1.428e-02  3.662e+26  3.901e-29        1
statesabbrev=ME  -6.712e-02  3.662e+26 -1.833e-28        1
statesabbrev=MI   1.675e-04  3.662e+26  4.575e-31        1
statesabbrev=MN   2.390e-02  3.662e+26  6.527e-29        1
statesabbrev=MO   2.994e-02  3.662e+26  8.177e-29        1
statesabbrev=MS   8.022e-02  1.188e+28  6.753e-30        1
statesabbrev=MT  -3.949e-02  3.662e+26 -1.078e-28        1
statesabbrev=NC   3.752e-03  3.662e+26  1.025e-29        1
statesabbrev=ND  -4.370e-02  5.431e+27 -8.047e-30        1
statesabbrev=NE  -7.699e-02  3.662e+26 -2.102e-28        1
statesabbrev=NH   7.562e-04  3.662e+26  2.065e-30        1
statesabbrev=NJ   2.579e-02  3.662e+26  7.042e-29        1
statesabbrev=NM   8.839e-02  6.522e+27  1.355e-29        1
statesabbrev=NV  -5.604e-02  3.662e+26 -1.530e-28        1
statesabbrev=NY  -2.434e-02  3.662e+26 -6.646e-29        1
statesabbrev=OH   5.135e-02  3.662e+26  1.402e-28        1
statesabbrev=OK   3.675e-02  3.662e+26  1.004e-28        1
statesabbrev=OR  -1.268e-02  3.662e+26 -3.463e-29        1
statesabbrev=PA   5.284e-02  3.662e+26  1.443e-28        1
statesabbrev=RI   9.502e-03  3.662e+26  2.595e-29        1
statesabbrev=SC   7.159e-02  2.470e+27  2.898e-29        1
statesabbrev=SD  -8.408e-02  3.662e+26 -2.296e-28        1
statesabbrev=TN  -6.587e-02  3.662e+26 -1.799e-28        1
statesabbrev=TX  -3.134e-02  3.662e+26 -8.559e-29        1
statesabbrev=UT  -2.998e-02  3.662e+26 -8.186e-29        1
statesabbrev=VA   7.067e-02  2.862e+27  2.469e-29        1
statesabbrev=VT  -6.090e-02  3.662e+26 -1.663e-28        1
statesabbrev=WA   9.306e-02  1.141e+27  8.155e-29        1
statesabbrev=WI  -1.854e-02  3.662e+26 -5.062e-29        1
statesabbrev=WV   7.245e-02  3.662e+26  1.978e-28        1
statesabbrev=WY  -4.723e-02  3.662e+26 -1.290e-28        1
t2_year=1956      3.521e-02  3.507e+27  1.004e-29        1
t2_year=1960      2.672e-02  3.662e+26  7.296e-29        1
t2_year=1964      2.083e-01  3.662e+26  5.689e-28        1
t2_year=1968      5.572e-02  3.662e+26  1.521e-28        1
t2_year=1972     -8.028e-02  3.662e+26 -2.192e-28        1
t2_year=1976     -4.232e-02  3.662e+26 -1.156e-28        1
t2_year=1980     -8.810e-02  3.662e+26 -2.406e-28        1
t2_year=1984     -5.276e-02  3.662e+26 -1.441e-28        1
t2_year=1988     -2.316e-02  3.662e+26 -6.324e-29        1
t2_year=1992      5.260e-03  3.662e+26  1.436e-29        1
t2_year=1996      1.938e-02  3.662e+26  5.293e-29        1
```

```
t2_year=2000      -5.331e-02  3.662e+26 -1.456e-28           1
t2_year=2004      -3.520e-02  4.007e+26 -8.783e-29           1
stateyear=AL1968   5.560e-02  4.651e+26  1.195e-28           1
stateyear=AL1976   1.675e-01  4.651e+26  3.602e-28           1
stateyear=AL1980   1.540e-01  4.651e+26  3.312e-28           1
stateyear=AL1984   2.699e-02  4.651e+26  5.804e-29           1
stateyear=AL1988  -1.073e-02  4.651e+26 -2.307e-29           1
stateyear=AL1996   2.627e-02  4.651e+26  5.648e-29           1
stateyear=AL2000   4.200e-02  4.651e+26  9.030e-29           1
stateyear=AL2004         NA  1.044e+27         NA          NA
stateyear=AR1964  -1.939e-01  1.044e+27 -1.856e-28           1
stateyear=AR1968  -3.964e-02  1.044e+27 -3.796e-29           1
stateyear=AR1976   1.895e-01  1.044e+27  1.815e-28           1
stateyear=AR1980   1.544e-01  1.044e+27  1.478e-28           1
stateyear=AR1984  -2.731e-02  1.044e+27 -2.615e-29           1
stateyear=AR1988  -7.509e-03  1.044e+27 -7.190e-30           1
stateyear=AR1996   1.274e-01  1.044e+27  1.219e-28           1
stateyear=AR2000   9.840e-02  3.507e+27  2.805e-29           1
stateyear=AR2004         NA  3.662e+26         NA          NA
stateyear=AZ1956  -2.059e-02  3.662e+26 -5.623e-29           1
stateyear=AZ1960   6.389e-02  3.662e+26  1.745e-28           1
stateyear=AZ1964  -6.028e-02  3.662e+26 -1.646e-28           1
stateyear=AZ1968   6.855e-03  3.662e+26  1.872e-29           1
stateyear=AZ1976   9.862e-02  3.662e+26  2.693e-28           1
stateyear=AZ1980   1.028e-01  3.662e+26  2.807e-28           1
stateyear=AZ1984   5.775e-02  3.662e+26  1.577e-28           1
stateyear=AZ1988   1.104e-01  3.662e+26  3.014e-28           1
stateyear=AZ1996   1.856e-01  4.007e+26  4.631e-28           1
stateyear=AZ2000   2.044e-01  3.564e+27  5.736e-29           1
stateyear=AZ2004   1.679e-01  6.500e+26  2.583e-28           1
stateyear=CA1956  -1.399e-01  6.500e+26 -2.152e-28           1
stateyear=CA1960  -9.861e-02  6.500e+26 -1.517e-28           1
stateyear=CA1964  -1.778e-01  6.500e+26 -2.735e-28           1
stateyear=CA1976  -4.774e-02  6.500e+26 -7.345e-29           1
stateyear=CA1980  -6.679e-02  6.500e+26 -1.027e-28           1
stateyear=CA1988  -6.021e-02  6.500e+26 -9.263e-29           1
stateyear=CA1996  -4.068e-03  3.507e+27 -1.160e-30           1
stateyear=CA2000   3.085e-02  3.662e+26  8.424e-29           1
stateyear=CA2004         NA  3.662e+26         NA          NA
stateyear=C01956  -3.001e-02  3.662e+26 -8.194e-29           1
stateyear=C01960   1.936e-03  3.662e+26  5.286e-30           1
stateyear=C01964   4.094e-02  3.662e+26  1.118e-28           1
stateyear=C01968  -7.897e-03  3.662e+26 -2.157e-29           1
stateyear=C01976   8.561e-02  3.662e+26  2.338e-28           1
stateyear=C01980   8.048e-02  3.662e+26  2.198e-28           1
stateyear=C01984   3.219e-02  3.662e+26  8.790e-29           1
```

```
stateyear=CO1988   1.203e-01  4.007e+26   3.002e-28          1
stateyear=CO1996   1.471e-01  3.507e+27   4.195e-29          1
stateyear=CO2000   1.557e-01  3.662e+26   4.251e-28          1
stateyear=CO2004   1.452e-01  3.662e+26   3.965e-28          1
stateyear=CT1956  -1.093e-01  3.662e+26  -2.984e-28          1
stateyear=CT1960   5.794e-02  3.662e+26   1.582e-28          1
stateyear=CT1968   1.384e-02  3.662e+26   3.780e-29          1
stateyear=CT1976   4.103e-02  3.662e+26   1.120e-28          1
stateyear=CT1980   6.149e-02  3.662e+26   1.679e-28          1
stateyear=CT1984  -1.437e-02  3.662e+26  -3.924e-29          1
stateyear=CT1988   3.568e-02  4.007e+26   8.905e-29          1
stateyear=CT1996   1.374e-01  3.507e+27   3.918e-29          1
stateyear=CT2000   1.947e-01  3.662e+26   5.316e-28          1
stateyear=CT2004   1.361e-01  3.662e+26   3.715e-28          1
stateyear=DE1956  -1.134e-01  3.662e+26  -3.096e-28          1
stateyear=DE1960  -1.688e-02  3.662e+26  -4.609e-29          1
stateyear=DE1964  -1.134e-01  3.662e+26  -3.095e-28          1
stateyear=DE1968  -6.244e-02  3.662e+26  -1.705e-28          1
stateyear=DE1972  -1.533e-02  3.662e+26  -4.187e-29          1
stateyear=DE1976   1.045e-01  3.662e+26   2.855e-28          1
stateyear=DE1980   1.048e-01  3.662e+26   2.862e-28          1
stateyear=DE1984  -6.348e-02  3.662e+26  -1.733e-28          1
stateyear=DE1988  -1.147e-01  3.662e+26  -3.132e-28          1
stateyear=DE1992  -2.930e-02  4.007e+26  -7.311e-29          1
stateyear=DE1996   1.372e-01  3.940e+27   3.481e-29          1
stateyear=DE2000   1.792e-01  1.466e+27   1.223e-28          1
stateyear=DE2004   1.451e-01  1.466e+27   9.897e-29          1
stateyear=FL1956  -1.915e-01  1.466e+27  -1.307e-28          1
stateyear=FL1960  -1.807e-01  1.466e+27  -1.232e-28          1
stateyear=FL1964  -2.342e-01  1.466e+27  -1.598e-28          1
stateyear=FL1976   8.776e-03  1.466e+27   5.986e-30          1
stateyear=FL1980  -9.446e-02  1.466e+27  -6.443e-29          1
stateyear=FL1984  -1.737e-01  1.466e+27  -1.185e-28          1
stateyear=FL1988  -1.719e-01  8.532e+27  -2.015e-29          1
stateyear=FL1996   1.181e-02  7.196e+27   1.641e-30          1
stateyear=FL2000   5.058e-02  7.196e+27   7.029e-30          1
stateyear=FL2004          NA  7.196e+27          NA         NA
stateyear=GA1956   1.172e-02  7.196e+27   1.628e-30          1
stateyear=GA1968  -1.215e-01  7.196e+27  -1.689e-29          1
stateyear=GA1976   1.484e-01  7.196e+27   2.062e-29          1
stateyear=GA1980   1.082e-01  2.964e+27   3.651e-29          1
stateyear=GA1984  -1.185e-01  2.964e+27  -4.000e-29          1
stateyear=GA1988  -1.559e-01  2.964e+27  -5.261e-29          1
stateyear=GA2000   3.158e-02  2.964e+27   1.066e-29          1
stateyear=GA2004          NA  2.964e+27          NA         NA
stateyear=HI1972  -9.959e-02  3.507e+27  -2.839e-29          1
```

```
stateyear=HI1976  5.043e-02  3.662e+26  1.377e-28          1
stateyear=HI1988  1.590e-01  3.662e+26  4.343e-28          1
stateyear=HI1996  1.023e-01  3.662e+26  2.792e-28          1
stateyear=HI2000  1.149e-01  3.662e+26  3.138e-28          1
stateyear=HI2004        NA  3.662e+26         NA         NA
stateyear=IA1956  3.237e-03  3.662e+26  8.840e-30          1
stateyear=IA1960 -3.765e-03  3.662e+26 -1.028e-29          1
stateyear=IA1964  2.075e-02  3.662e+26  5.667e-29          1
stateyear=IA1968 -1.819e-02  3.662e+26 -4.968e-29          1
stateyear=IA1972  2.293e-01  3.662e+26  6.260e-28          1
stateyear=IA1976  1.164e-01  3.662e+26  3.178e-28          1
stateyear=IA1980  1.121e-01  4.007e+26  2.798e-28          1
stateyear=IA1984  9.775e-02  3.507e+27  2.787e-29          1
stateyear=IA1988  1.779e-01  3.662e+26  4.859e-28          1
stateyear=IA1992  1.623e-01  3.662e+26  4.433e-28          1
stateyear=IA1996  1.643e-01  3.662e+26  4.488e-28          1
stateyear=IA2000  1.837e-01  3.662e+26  5.017e-28          1
stateyear=IA2004  1.433e-01  3.662e+26  3.913e-28          1
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stateyear=OR2004  1.049e-01  3.662e+26  2.863e-28         1
stateyear=PA1956 -8.787e-02  3.662e+26 -2.399e-28         1
stateyear=PA1960  1.547e-03  3.662e+26  4.226e-30         1
stateyear=PA1964 -3.900e-02  4.007e+26 -9.732e-29         1
stateyear=PA1968 -1.254e-02  3.507e+27 -3.574e-30         1
stateyear=PA1972  2.152e-02  3.662e+26  5.877e-29         1
stateyear=PA1976  3.896e-02  3.662e+26  1.064e-28         1
stateyear=PA1980  5.035e-02  3.662e+26  1.375e-28         1
stateyear=PA1984 -1.894e-02  3.662e+26 -5.171e-29         1
stateyear=PA1988 -2.481e-02  3.662e+26 -6.774e-29         1
stateyear=PA1992  1.489e-03  3.662e+26  4.067e-30         1
stateyear=PA1996  3.125e-02  3.662e+26  8.534e-29         1
stateyear=PA2000  7.327e-02  3.662e+26  2.001e-28         1
stateyear=PA2004  5.097e-02  4.007e+26  1.272e-28         1
stateyear=RI1956 -1.001e-01  2.470e+27 -4.054e-29         1
stateyear=RI1960  1.144e-01  2.470e+27  4.633e-29         1
stateyear=RI1968  1.574e-01  2.470e+27  6.372e-29         1
stateyear=RI1976  7.329e-02  2.470e+27  2.967e-29         1
stateyear=RI1980  1.796e-01  2.470e+27  7.272e-29         1
stateyear=RI1984  7.828e-02  2.470e+27  3.169e-29         1
stateyear=RI1988  1.604e-01  2.470e+27  6.493e-29         1
stateyear=RI1996  1.824e-01  2.470e+27  7.385e-29         1
stateyear=RI2000  1.700e-01  3.507e+27  4.847e-29         1
stateyear=RI2004  1.740e-01  3.662e+26  4.750e-28         1
stateyear=SC1964 -3.788e-01  3.662e+26 -1.034e-27         1
stateyear=SC1968 -1.218e-01  3.662e+26 -3.326e-28         1
stateyear=SC1976  6.460e-02  3.662e+26  1.764e-28         1
stateyear=SC1980  3.496e-02  3.662e+26  9.547e-29         1
stateyear=SC1984 -8.159e-02  3.662e+26 -2.228e-28         1
stateyear=SC1988 -1.397e-01  3.662e+26 -3.814e-28         1
stateyear=SC1996 -1.991e-02  3.662e+26 -5.436e-29         1
stateyear=SC2000 -1.590e-02  3.662e+26 -4.343e-29         1
stateyear=SC2004        NA  3.507e+27        NA        NA
stateyear=SD1956  6.641e-02  3.662e+26  1.813e-28         1
stateyear=SD1960  4.200e-02  3.662e+26  1.147e-28         1
stateyear=SD1964  3.430e-02  3.662e+26  9.365e-29         1
stateyear=SD1968  8.923e-02  3.662e+26  2.437e-28         1
stateyear=SD1976  2.262e-01  3.662e+26  6.177e-28         1
stateyear=SD1980  9.631e-02  3.662e+26  2.630e-28         1
stateyear=SD1984  6.891e-02  3.662e+26  1.882e-28         1
```

```
stateyear=SD1988  1.046e-01  3.662e+26  2.856e-28         1
stateyear=SD1992  4.924e-02  3.662e+26  1.344e-28         1
stateyear=SD1996  6.309e-02  3.662e+26  1.723e-28         1
stateyear=TN1956 -1.450e-02  4.007e+26 -3.620e-29         1
stateyear=TN1960 -7.928e-03  3.507e+27 -2.260e-30         1
stateyear=TN1964 -6.210e-02  3.662e+26 -1.696e-28         1
stateyear=TN1968  2.585e-02  3.662e+26  7.060e-29         1
stateyear=TN1972  2.670e-01  3.662e+26  7.290e-28         1
stateyear=TN1976  2.071e-01  3.662e+26  5.654e-28         1
stateyear=TN1980  2.270e-01  3.662e+26  6.200e-28         1
stateyear=TN1984  6.181e-02  3.662e+26  1.688e-28         1
stateyear=TN1988  3.822e-02  3.662e+26  1.044e-28         1
stateyear=TN1996  1.421e-01  3.507e+27  4.050e-29         1
stateyear=TN2000  1.626e-01  3.662e+26  4.440e-28         1
stateyear=TN2004  7.208e-02  3.662e+26  1.968e-28         1
stateyear=TX1956 -7.556e-02  3.662e+26 -2.063e-28         1
stateyear=TX1960 -6.562e-02  3.662e+26 -1.792e-28         1
stateyear=TX1964 -2.979e-02  3.662e+26 -8.134e-29         1
stateyear=TX1976  9.782e-02  3.662e+26  2.671e-28         1
stateyear=TX1980  8.342e-02  3.662e+26  2.278e-28         1
stateyear=TX1988  4.441e-02  3.662e+26  1.213e-28         1
stateyear=TX1996  7.866e-02  3.662e+26  2.148e-28         1
stateyear=TX2000  7.107e-02  4.007e+26  1.774e-28         1
stateyear=UT1956 -6.591e-02  4.986e+27 -1.322e-29         1
stateyear=UT1960  2.622e-02  2.862e+27  9.163e-30         1
stateyear=UT1964 -6.300e-02  2.862e+27 -2.201e-29         1
stateyear=UT1968 -7.348e-03  2.862e+27 -2.568e-30         1
stateyear=UT1976 -4.564e-02  2.862e+27 -1.595e-29         1
stateyear=UT1980 -6.836e-02  2.862e+27 -2.389e-29         1
stateyear=UT1984 -5.521e-02  2.862e+27 -1.929e-29         1
stateyear=UT1988 -3.861e-02  2.862e+27 -1.349e-29         1
stateyear=UT1996 -3.184e-02  2.862e+27 -1.113e-29         1
stateyear=UT2000 -4.892e-03  2.862e+27 -1.709e-30         1
stateyear=UT2004 -6.293e-02  3.507e+27 -1.794e-29         1
stateyear=VA1956 -1.550e-01  3.662e+26 -4.233e-28         1
stateyear=VA1960 -6.779e-02  3.662e+26 -1.851e-28         1
stateyear=VA1964 -1.743e-01  3.662e+26 -4.760e-28         1
stateyear=VA1968 -1.411e-01  3.662e+26 -3.854e-28         1
stateyear=VA1976  5.487e-02  3.662e+26  1.498e-28         1
stateyear=VA1980  3.998e-02  3.907e+27  1.023e-29         1
stateyear=VA1984 -5.988e-02  1.141e+27 -5.247e-29         1
stateyear=VA1988 -7.474e-02  1.141e+27 -6.550e-29         1
stateyear=VA1996 -4.241e-02  1.141e+27 -3.717e-29         1
stateyear=VA2000  1.238e-02  1.141e+27  1.085e-29         1
stateyear=VA2004        NA  1.141e+27        NA        NA
stateyear=VT1956 -7.988e-02  1.141e+27 -7.000e-29         1
```

```
stateyear=VT1960  1.339e-02  1.141e+27  1.173e-29        1
stateyear=VT1964  1.073e-01  1.141e+27  9.400e-29        1
stateyear=VT1968  8.588e-02  3.507e+27  2.449e-29        1
stateyear=VT1976  1.357e-01  3.662e+26  3.705e-28        1
stateyear=VT1984  1.855e-01  3.662e+26  5.065e-28        1
stateyear=WA1956 -8.411e-02  3.662e+26 -2.297e-28        1
stateyear=WA1960 -6.399e-02  3.662e+26 -1.747e-28        1
stateyear=WA1964 -6.795e-02  3.662e+26 -1.856e-28        1
stateyear=WA1968 -1.344e-01  3.662e+26 -3.670e-28        1
stateyear=WA1976 -4.663e-02  3.662e+26 -1.273e-28        1
stateyear=WA1980 -2.053e-02  3.662e+26 -5.606e-29        1
stateyear=WA1988 -4.024e-02  3.662e+26 -1.099e-28        1
stateyear=WA1996 -5.463e-04  4.007e+26 -1.363e-30        1
stateyear=WA2000  2.347e-02  3.507e+27  6.690e-30        1
stateyear=WA2004        NA  3.662e+26        NA       NA
stateyear=WI1956 -5.751e-02  3.662e+26 -1.570e-28        1
stateyear=WI1960  2.392e-02  3.662e+26  6.531e-29        1
stateyear=WI1968  2.454e-02  3.662e+26  6.702e-29        1
stateyear=WI1972  1.692e-01  3.662e+26  4.620e-28        1
stateyear=WI1976  9.033e-02  3.662e+26  2.467e-28        1
stateyear=WI1980  1.306e-01  3.662e+26  3.567e-28        1
stateyear=WI1984  8.235e-02  3.662e+26  2.249e-28        1
stateyear=WI1988  1.457e-01  3.662e+26  3.978e-28        1
stateyear=WI1996  1.663e-01  4.007e+26  4.151e-28        1
stateyear=WI2000  1.294e-01  3.662e+26  3.533e-28        1
stateyear=WI2004  1.179e-01  3.662e+26  3.221e-28        1
stateyear=WV1956 -1.119e-01  3.662e+26 -3.054e-28        1
stateyear=WV1960 -5.167e-02  3.662e+26 -1.411e-28        1
stateyear=WV1964 -6.389e-02  3.662e+26 -1.745e-28        1
stateyear=WV1972 -1.252e-02  3.662e+26 -3.418e-29        1
stateyear=WV1976  4.047e-02  3.662e+26  1.105e-28        1
stateyear=WV1980  5.053e-02  3.662e+26  1.380e-28        1
stateyear=WV1984 -5.589e-02  3.662e+26 -1.526e-28        1
stateyear=WV1988 -3.075e-02  3.662e+26 -8.397e-29        1
stateyear=WV1992 -1.481e-02  5.629e+26 -2.632e-29        1
stateyear=WV1996 -5.870e-03  1.131e+27 -5.190e-30        1
stateyear=WV2004 -4.665e-02  8.126e+26 -5.741e-29        1
stateyear=WY1956        NA  1.443e+27        NA       NA
stateyear=WY1960  4.617e-02  7.321e+27  6.306e-30        1
stateyear=WY1964  2.072e-02  3.010e+27  6.884e-30        1
stateyear=WY1968 -4.768e-02  2.376e+28 -2.006e-30        1
stateyear=WY1972  7.728e-03  1.179e+28  6.553e-31        1
stateyear=WY1976  3.950e-02  5.397e+27  7.319e-30        1
stateyear=WY1980  4.641e-02  6.564e+27  7.071e-30        1
stateyear=WY1984  2.351e-02  2.455e+27  9.577e-30        1
stateyear=WY1988  9.033e-02  2.972e+27  3.039e-29        1
```

```
stateyear=WY1992  8.677e-02  1.229e+27  7.063e-29         1
stateyear=WY1996  4.235e-02  3.507e+27  1.207e-29         1
stateyear=WY2000        NA  3.662e+26         NA        NA
stateyear=WY2004        NA  4.007e+26         NA        NA

Residual standard error: 0.06228 on 2756 degrees of freedom
Adjusted R-Squared: 0.6751
```

```
  regress22 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
data=data2, method='qr', x=TRUE, subset=margin<.2)
 robcov(regress22)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
    data = data2, subset = margin < 0.2, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
2828	3733	563	0.7329	0.05969

Residuals:

Min	1Q	Median	3Q	Max
-3.224e-01	-3.234e-02	-5.626e-05	2.830e-02	4.758e-01

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-7.630e-02	3.652e+26	-2.089e-28	1
dwin	-1.398e-03	3.345e+12	-4.180e-16	1
dv_c_t1	-5.009e-01	1.875e+14	-2.671e-15	1
dv_c_t1_2	-1.935e+01	3.447e+15	-5.614e-15	1
dv_c_t1_3	-1.394e+02	2.528e+16	-5.514e-15	1
dv_c_t1_4	-3.203e+02	6.024e+16	-5.317e-15	1
i_dv_c_t1	1.207e+00	3.179e+14	3.799e-15	1
i_dv_c_t1_2	1.392e+01	3.816e+15	3.649e-15	1
i_dv_c_t1_3	1.897e+02	3.576e+16	5.304e-15	1
i_dv_c_t1_4	1.617e+02	6.967e+16	2.320e-15	1
statesabbrev=AL	1.405e-02	1.383e+27	1.016e-29	1
statesabbrev=AR	2.638e-02	1.021e+27	2.585e-29	1
statesabbrev=AZ	-7.127e-02	3.652e+26	-1.952e-28	1
statesabbrev=CA	1.090e-01	1.558e+27	6.996e-29	1
statesabbrev=CO	-4.239e-02	3.652e+26	-1.161e-28	1
statesabbrev=CT	9.023e-03	3.652e+26	2.471e-29	1
statesabbrev=DE	7.553e-02	3.652e+26	2.068e-28	1
statesabbrev=FL	9.170e-02	7.198e+26	1.274e-28	1
statesabbrev=GA	1.178e-01	5.049e+27	2.333e-29	1
statesabbrev=HI	1.521e-01	4.791e+28	3.175e-30	1
statesabbrev=IA	-2.607e-02	3.652e+26	-7.140e-29	1
statesabbrev=ID	-6.211e-02	3.652e+26	-1.701e-28	1
statesabbrev=IL	6.331e-02	3.652e+26	1.734e-28	1
statesabbrev=IN	1.540e-03	3.652e+26	4.218e-30	1

```
statesabbrev=KS  -9.077e-02  3.652e+26 -2.486e-28        1
statesabbrev=KY   4.102e-02  3.652e+26  1.123e-28        1
statesabbrev=LA   7.566e-02  1.464e+28  5.170e-30        1
statesabbrev=MA   1.282e-02  3.652e+26  3.512e-29        1
statesabbrev=MD   1.648e-02  3.652e+26  4.513e-29        1
statesabbrev=ME  -6.522e-02  3.652e+26 -1.786e-28        1
statesabbrev=MI   1.984e-03  3.652e+26  5.433e-30        1
statesabbrev=MN   2.565e-02  3.652e+26  7.024e-29        1
statesabbrev=MO   3.651e-02  3.652e+26  9.999e-29        1
statesabbrev=MS   9.072e-02  1.197e+28  7.582e-30        1
statesabbrev=MT  -3.866e-02  3.652e+26 -1.059e-28        1
statesabbrev=NC  -1.011e-02  3.652e+26 -2.768e-29        1
statesabbrev=ND  -4.038e-02  2.993e+28 -1.349e-30        1
statesabbrev=NE  -7.550e-02  3.652e+26 -2.068e-28        1
statesabbrev=NH   2.507e-03  3.652e+26  6.865e-30        1
statesabbrev=NJ   2.825e-02  3.652e+26  7.737e-29        1
statesabbrev=NM   9.096e-02  9.746e+27  9.333e-30        1
statesabbrev=NV  -5.284e-02  3.652e+26 -1.447e-28        1
statesabbrev=NY  -2.290e-02  3.652e+26 -6.272e-29        1
statesabbrev=OH   5.278e-02  3.652e+26  1.445e-28        1
statesabbrev=OK   3.994e-02  3.652e+26  1.094e-28        1
statesabbrev=OR  -1.069e-02  3.652e+26 -2.927e-29        1
statesabbrev=PA   5.602e-02  3.652e+26  1.534e-28        1
statesabbrev=RI   8.954e-03  3.652e+26  2.452e-29        1
statesabbrev=SC   7.775e-02  7.452e+27  1.043e-29        1
statesabbrev=SD  -8.170e-02  3.652e+26 -2.237e-28        1
statesabbrev=TN  -6.421e-02  3.652e+26 -1.758e-28        1
statesabbrev=TX  -2.830e-02  3.652e+26 -7.750e-29        1
statesabbrev=UT  -2.715e-02  3.652e+26 -7.435e-29        1
statesabbrev=VA   7.380e-02  2.874e+27  2.567e-29        1
statesabbrev=VT   7.576e-02  2.376e+28  3.189e-30        1
statesabbrev=WA   9.541e-02  1.318e+27  7.239e-29        1
statesabbrev=WI  -1.752e-02  3.652e+26 -4.799e-29        1
statesabbrev=WV   7.407e-02  3.652e+26  2.028e-28        1
statesabbrev=WY  -4.545e-02  3.652e+26 -1.245e-28        1
t2_year=1956      3.580e-02  2.103e+27  1.703e-29        1
t2_year=1960      2.963e-02  3.652e+26  8.114e-29        1
t2_year=1964      2.120e-01  3.652e+26  5.807e-28        1
t2_year=1968      5.772e-02  3.652e+26  1.581e-28        1
t2_year=1972     -7.653e-02  3.652e+26 -2.096e-28        1
t2_year=1976     -4.071e-02  3.652e+26 -1.115e-28        1
t2_year=1980     -8.597e-02  3.652e+26 -2.354e-28        1
t2_year=1984     -1.087e-01  8.799e+26 -1.236e-28        1
t2_year=1988     -2.039e-02  3.652e+26 -5.585e-29        1
t2_year=1992      7.127e-03  3.652e+26  1.952e-29        1
t2_year=1996      2.043e-02  3.652e+26  5.595e-29        1
```

```
t2_year=2000       -5.251e-02  3.652e+26 -1.438e-28        1
t2_year=2004       -3.553e-02  5.641e+26 -6.297e-29        1
stateyear=AL1968    6.002e-02  1.383e+27  4.339e-29        1
stateyear=AL1976    1.337e-01  1.383e+27  9.666e-29        1
stateyear=AL1980    1.192e-01  1.383e+27  8.619e-29        1
stateyear=AL1984    5.173e-02  1.553e+27  3.330e-29        1
stateyear=AL1988   -2.165e-02  1.383e+27 -1.565e-29        1
stateyear=AL1996   -1.554e-02  1.383e+27 -1.124e-29        1
stateyear=AL2000    2.707e-02  1.383e+27  1.957e-29        1
stateyear=AL2004          NA  1.021e+27         NA       NA
stateyear=AR1964   -1.826e-01  1.021e+27 -1.789e-28        1
stateyear=AR1968   -4.343e-02  1.021e+27 -4.255e-29        1
stateyear=AR1976    1.875e-01  1.021e+27  1.837e-28        1
stateyear=AR1980    1.523e-01  1.287e+27  1.183e-28        1
stateyear=AR1984    2.697e-02  1.021e+27  2.642e-29        1
stateyear=AR1988   -1.370e-02  1.021e+27 -1.342e-29        1
stateyear=AR1996    1.269e-01  1.021e+27  1.244e-28        1
stateyear=AR2000    9.788e-02  2.103e+27  4.655e-29        1
stateyear=AR2004          NA  3.652e+26         NA       NA
stateyear=AZ1956   -2.889e-02  3.652e+26 -7.913e-29        1
stateyear=AZ1960    5.431e-02  3.652e+26  1.487e-28        1
stateyear=AZ1964   -6.916e-02  3.652e+26 -1.894e-28        1
stateyear=AZ1968   -1.160e-03  3.652e+26 -3.177e-30        1
stateyear=AZ1976    9.037e-02  8.799e+26  1.027e-28        1
stateyear=AZ1980    9.265e-02  3.652e+26  2.537e-28        1
stateyear=AZ1984    1.015e-01  3.652e+26  2.779e-28        1
stateyear=AZ1988    1.129e-01  3.652e+26  3.093e-28        1
stateyear=AZ1996    1.777e-01  5.641e+26  3.149e-28        1
stateyear=AZ2000    1.873e-01  2.446e+27  7.655e-29        1
stateyear=AZ2004    1.561e-01  1.558e+27  1.002e-28        1
stateyear=CA1956   -1.300e-01  1.558e+27 -8.345e-29        1
stateyear=CA1960   -9.227e-02  1.558e+27 -5.923e-29        1
stateyear=CA1964   -1.621e-01  1.558e+27 -1.041e-28        1
stateyear=CA1976   -3.840e-02  1.558e+27 -2.465e-29        1
stateyear=CA1980   -6.366e-02  1.558e+27 -4.087e-29        1
stateyear=CA1988   -4.530e-02  1.558e+27 -2.908e-29        1
stateyear=CA1996    8.724e-03  2.103e+27  4.149e-30        1
stateyear=CA2000    3.399e-02  3.652e+26  9.309e-29        1
stateyear=CA2004          NA  3.652e+26         NA       NA
stateyear=C01956   -3.041e-02  3.652e+26 -8.328e-29        1
stateyear=C01960   -1.062e-03  3.652e+26 -2.909e-30        1
stateyear=C01964    3.832e-02  3.652e+26  1.049e-28        1
stateyear=C01968   -9.916e-03  8.799e+26 -1.127e-29        1
stateyear=C01976    8.494e-02  3.652e+26  2.326e-28        1
stateyear=C01980    7.725e-02  3.652e+26  2.116e-28        1
stateyear=C01984    8.882e-02  3.652e+26  2.432e-28        1
```

```
stateyear=CO1988  1.217e-01  5.641e+26   2.157e-28          1
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stateyear=CO2004  1.629e-01  3.652e+26   4.460e-28          1
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stateyear=NV1968 -5.237e-02  3.652e+26 -1.434e-28          1
stateyear=NV1976  9.528e-02  3.652e+26  2.609e-28          1
stateyear=NV1984  5.947e-02  3.652e+26  1.629e-28          1
stateyear=NV1988  4.440e-02  3.652e+26  1.216e-28          1
stateyear=NV1996  1.581e-01  8.799e+26  1.796e-28          1
stateyear=NV2000  2.341e-01  3.652e+26  6.411e-28          1
stateyear=NV2004  2.025e-01  3.652e+26  5.546e-28          1
stateyear=NY1956 -1.003e-01  3.652e+26 -2.747e-28          1
stateyear=NY1960  6.804e-02  3.652e+26  1.863e-28          1
stateyear=NY1964  4.752e-02  5.641e+26  8.424e-29          1
```

```
stateyear=NY1968 -4.754e-03  2.103e+27 -2.261e-30          1
stateyear=NY1972  2.239e-01  3.652e+26  6.132e-28          1
stateyear=NY1976  8.543e-02  3.652e+26  2.339e-28          1
stateyear=NY1980  9.577e-02  3.652e+26  2.623e-28          1
stateyear=NY1984  9.784e-02  3.652e+26  2.679e-28          1
stateyear=NY1988  8.485e-02  3.652e+26  2.324e-28          1
stateyear=NY1992  2.540e-02  8.799e+26  2.886e-29          1
stateyear=NY1996  1.911e-01  3.652e+26  5.234e-28          1
stateyear=NY2000  2.214e-01  3.652e+26  6.062e-28          1
stateyear=NY2004  1.557e-01  3.652e+26  4.264e-28          1
stateyear=OH1956 -1.238e-01  5.641e+26 -2.194e-28          1
stateyear=OH1960 -6.310e-02  2.103e+27 -3.001e-29          1
stateyear=OH1964 -4.889e-02  3.652e+26 -1.339e-28          1
stateyear=OH1972  9.996e-02  3.652e+26  2.737e-28          1
stateyear=OH1976  4.722e-02  3.652e+26  1.293e-28          1
stateyear=OH1980  4.257e-02  3.652e+26  1.166e-28          1
stateyear=OH1984  1.914e-03  8.799e+26  2.175e-30          1
stateyear=OH1988 -4.612e-02  3.652e+26 -1.263e-28          1
stateyear=OH1996  5.832e-02  3.652e+26  1.597e-28          1
stateyear=OH2000  5.900e-02  3.652e+26  1.616e-28          1
stateyear=OH2004  6.535e-02  5.641e+26  1.158e-28          1
stateyear=OK1956 -1.145e-01  2.103e+27 -5.446e-29          1
stateyear=OK1960 -1.443e-01  3.652e+26 -3.952e-28          1
stateyear=OK1964 -1.470e-01  3.652e+26 -4.026e-28          1
stateyear=OK1976 -1.337e-02  3.652e+26 -3.661e-29          1
stateyear=OK1980 -4.035e-02  3.652e+26 -1.105e-28          1
stateyear=OK1984 -8.863e-02  3.652e+26 -2.427e-28          1
stateyear=OK1988 -4.188e-02  8.799e+26 -4.760e-29          1
stateyear=OK1996 -1.255e-03  3.652e+26 -3.437e-30          1
stateyear=OK2000  2.535e-02  3.652e+26  6.942e-29          1
stateyear=OK2004 -5.825e-02  3.652e+26 -1.595e-28          1
stateyear=OR1956  9.995e-03  5.641e+26  1.772e-29          1
stateyear=OR1960 -6.297e-03  2.103e+27 -2.994e-30          1
stateyear=OR1964 -4.144e-02  3.652e+26 -1.135e-28          1
stateyear=OR1968 -2.746e-02  3.652e+26 -7.519e-29          1
stateyear=OR1976  9.165e-02  3.652e+26  2.510e-28          1
stateyear=OR1980  3.613e-02  3.652e+26  9.894e-29          1
stateyear=OR1984  9.707e-02  3.652e+26  2.658e-28          1
stateyear=OR1988  1.070e-01  3.652e+26  2.929e-28          1
stateyear=OR1996  7.293e-02  8.799e+26  8.289e-29          1
stateyear=OR2000  1.046e-01  3.652e+26  2.864e-28          1
stateyear=OR2004  8.275e-02  3.652e+26  2.266e-28          1
stateyear=PA1956 -8.952e-02  3.652e+26 -2.452e-28          1
stateyear=PA1960 -9.139e-03  3.652e+26 -2.503e-29          1
stateyear=PA1964 -4.387e-02  5.641e+26 -7.777e-29          1
stateyear=PA1968 -1.421e-02  2.103e+27 -6.756e-30          1
```

```
stateyear=PA1972  2.450e-02  3.652e+26  6.710e-29        1
stateyear=PA1976  2.276e-02  3.652e+26  6.234e-29        1
stateyear=PA1980  4.303e-02  3.652e+26  1.178e-28        1
stateyear=PA1984  4.384e-02  8.799e+26  4.982e-29        1
stateyear=PA1988 -3.553e-02  3.652e+26 -9.731e-29        1
stateyear=PA1992 -2.834e-03  3.652e+26 -7.762e-30        1
stateyear=PA1996  2.737e-02  5.641e+26  4.851e-29        1
stateyear=PA2000  7.432e-02  7.452e+27  9.973e-30        1
stateyear=PA2004  7.158e-02  7.452e+27  9.606e-30        1
stateyear=RI1956 -9.913e-02  7.452e+27 -1.330e-29        1
stateyear=RI1960  1.109e-01  7.452e+27  1.488e-29        1
stateyear=RI1968  1.592e-01  7.463e+27  2.133e-29        1
stateyear=RI1980  1.795e-01  7.452e+27  2.409e-29        1
stateyear=RI1984  1.357e-01  7.452e+27  1.822e-29        1
stateyear=RI1988  1.255e-01  7.452e+27  1.685e-29        1
stateyear=RI1996  1.881e-01  2.103e+27  8.944e-29        1
stateyear=RI2004  1.743e-01  3.652e+26  4.774e-28        1
stateyear=SC1964 -3.855e-01  3.652e+26 -1.056e-27        1
stateyear=SC1968 -1.290e-01  3.652e+26 -3.532e-28        1
stateyear=SC1976  7.516e-02  3.652e+26  2.058e-28        1
stateyear=SC1980  2.818e-02  3.652e+26  7.717e-29        1
stateyear=SC1984 -2.867e-02  8.799e+26 -3.258e-29        1
stateyear=SC1988 -1.441e-01  3.652e+26 -3.947e-28        1
stateyear=SC1996 -1.946e-02  3.652e+26 -5.328e-29        1
stateyear=SC2000 -5.387e-02  3.652e+26 -1.475e-28        1
stateyear=SC2004        NA  2.103e+27        NA       NA
stateyear=SD1956  6.528e-02  3.652e+26  1.788e-28        1
stateyear=SD1960  3.952e-02  3.652e+26  1.082e-28        1
stateyear=SD1964  3.055e-02  3.652e+26  8.367e-29        1
stateyear=SD1968  8.695e-02  3.652e+26  2.381e-28        1
stateyear=SD1976  2.251e-01  3.652e+26  6.165e-28        1
stateyear=SD1980  9.375e-02  3.652e+26  2.567e-28        1
stateyear=SD1984  1.250e-01  8.799e+26  1.421e-28        1
stateyear=SD1988  1.010e-01  3.652e+26  2.766e-28        1
stateyear=SD1992  5.154e-02  3.652e+26  1.411e-28        1
stateyear=SD1996  5.887e-02  3.652e+26  1.612e-28        1
stateyear=TN1956 -1.480e-02  5.641e+26 -2.624e-29        1
stateyear=TN1960 -9.234e-03  2.103e+27 -4.391e-30        1
stateyear=TN1964 -8.232e-02  3.652e+26 -2.254e-28        1
stateyear=TN1968  2.098e-02  3.652e+26  5.744e-29        1
stateyear=TN1972  2.630e-01  3.652e+26  7.203e-28        1
stateyear=TN1976  1.910e-01  3.652e+26  5.229e-28        1
stateyear=TN1980  2.147e-01  3.652e+26  5.879e-28        1
stateyear=TN1984  8.015e-02  3.652e+26  2.195e-28        1
stateyear=TN1988  2.942e-02  3.652e+26  8.057e-29        1
stateyear=TN1996  1.453e-01  2.103e+27  6.911e-29        1
```

```
stateyear=TN2000  1.643e-01  3.652e+26  4.500e-28         1
stateyear=TN2004  7.809e-02  3.652e+26  2.138e-28         1
stateyear=TX1956 -7.918e-02  3.652e+26 -2.168e-28         1
stateyear=TX1960 -7.083e-02  3.652e+26 -1.940e-28         1
stateyear=TX1964 -4.583e-02  3.652e+26 -1.255e-28         1
stateyear=TX1976  9.011e-02  8.799e+26  1.024e-28         1
stateyear=TX1980  9.804e-02  3.652e+26  2.685e-28         1
stateyear=TX1988  4.828e-02  3.652e+26  1.322e-28         1
stateyear=TX1996  7.244e-02  3.652e+26  1.984e-28         1
stateyear=TX2000  5.986e-02  5.641e+26  1.061e-28         1
stateyear=UT1956 -6.723e-02  3.461e+27 -1.942e-29         1
stateyear=UT1960  2.240e-02  2.874e+27  7.793e-30         1
stateyear=UT1964 -6.733e-02  2.874e+27 -2.342e-29         1
stateyear=UT1968 -1.036e-02  2.874e+27 -3.605e-30         1
stateyear=UT1976 -4.758e-02  2.874e+27 -1.655e-29         1
stateyear=UT1980 -7.133e-02  2.874e+27 -2.481e-29         1
stateyear=UT1984 -5.987e-04  2.864e+27 -2.091e-31         1
stateyear=UT1988 -4.150e-02  2.874e+27 -1.444e-29         1
stateyear=UT1996 -3.429e-02  2.874e+27 -1.193e-29         1
stateyear=UT2000 -3.853e-03  2.874e+27 -1.340e-30         1
stateyear=UT2004 -6.033e-02  2.359e+28 -2.558e-30         1
stateyear=VA1956 -1.482e-01  2.376e+28 -6.239e-30         1
stateyear=VA1960 -7.175e-02  2.376e+28 -3.020e-30         1
stateyear=VA1964 -1.799e-01  2.376e+28 -7.571e-30         1
stateyear=VA1968 -1.439e-01  2.522e+27 -5.703e-29         1
stateyear=VA1976  5.263e-02  1.318e+27  3.993e-29         1
stateyear=VA1980  1.525e-02  1.318e+27  1.157e-29         1
stateyear=VA1984 -4.729e-03  1.318e+27 -3.588e-30         1
stateyear=VA1988 -7.475e-02  1.318e+27 -5.672e-29         1
stateyear=VA1996 -4.512e-02  1.318e+27 -3.423e-29         1
stateyear=VA2000  5.073e-03  1.318e+27  3.849e-30         1
stateyear=VA2004        NA  1.318e+27         NA        NA
stateyear=VT1956 -2.151e-01  1.318e+27 -1.632e-28         1
stateyear=VT1960 -1.237e-01  2.103e+27 -5.884e-29         1
stateyear=VT1964 -3.060e-02  3.652e+26 -8.380e-29         1
stateyear=VT1968 -5.186e-02  3.652e+26 -1.420e-28         1
stateyear=VT1976        NA  3.652e+26         NA        NA
stateyear=WA1956 -8.505e-02  3.652e+26 -2.329e-28         1
stateyear=WA1960 -7.179e-02  3.652e+26 -1.966e-28         1
stateyear=WA1964 -8.808e-02  8.799e+26 -1.001e-28         1
stateyear=WA1968 -1.353e-01  3.652e+26 -3.706e-28         1
stateyear=WA1976 -5.905e-02  3.652e+26 -1.617e-28         1
stateyear=WA1980 -2.342e-02  3.652e+26 -6.413e-29         1
stateyear=WA1988 -5.942e-03  5.641e+26 -1.053e-29         1
stateyear=WA1996 -1.928e-03  2.103e+27 -9.170e-31         1
stateyear=WA2000  3.249e-02  3.652e+26  8.898e-29         1
```

```
stateyear=WA2004              NA  3.652e+26           NA    NA
stateyear=WI1956 -5.097e-02  3.652e+26 -1.396e-28     1
stateyear=WI1960  1.838e-02  3.652e+26  5.034e-29     1
stateyear=WI1968  1.581e-02  3.652e+26  4.330e-29     1
stateyear=WI1972  1.669e-01  3.652e+26  4.570e-28     1
stateyear=WI1976  9.834e-02  3.652e+26  2.693e-28     1
stateyear=WI1980  1.149e-01  5.641e+26  2.037e-28     1
stateyear=WI1984  1.392e-01  3.652e+26  3.813e-28     1
stateyear=WI1988  1.435e-01  3.652e+26  3.929e-28     1
stateyear=WI1996  1.508e-01  3.652e+26  4.130e-28     1
stateyear=WI2000  1.433e-01  3.652e+26  3.923e-28     1
stateyear=WI2004  1.190e-01  3.652e+26  3.258e-28     1
stateyear=WV1956 -1.115e-01  3.652e+26 -3.053e-28     1
stateyear=WV1960 -5.506e-02  3.652e+26 -1.508e-28     1
stateyear=WV1964 -6.984e-02  3.652e+26 -1.912e-28     1
stateyear=WV1976  4.119e-02  3.652e+26  1.128e-28     1
stateyear=WV1980  4.801e-02  1.056e+27  4.546e-29     1
stateyear=WV1984              NA  1.280e+27           NA    NA
stateyear=WV1988 -4.494e-02  1.412e+27 -3.183e-29     1
stateyear=WV1992 -1.557e-02  4.907e+26 -3.172e-29     1
stateyear=WV1996  1.109e-02  4.911e+27  2.258e-30     1
stateyear=WV2004  7.332e-04  4.791e+28  1.530e-32     1
stateyear=WY1956              NA  1.464e+28           NA    NA
stateyear=WY1960  4.305e-02  1.197e+28  3.596e-30     1
stateyear=WY1964  1.723e-02  2.971e+28  5.801e-31     1
stateyear=WY1968 -4.978e-02  9.720e+27 -5.122e-30     1
stateyear=WY1972  3.896e-03  7.495e+27  5.198e-31     1
stateyear=WY1976  3.985e-02  2.773e+27  1.437e-29     1
stateyear=WY1980  4.528e-02  2.376e+28  1.906e-30     1
stateyear=WY1988  9.547e-02  1.340e+27  7.126e-29     1
stateyear=WY1992  8.510e-02  8.799e+26  9.671e-29     1
stateyear=WY1996  4.193e-02  2.103e+27  1.994e-29     1
stateyear=WY2000              NA  3.652e+26           NA    NA
stateyear=WY2004              NA  5.641e+26           NA    NA

Residual standard error: 0.05969 on 2264 degrees of freedom
Adjusted R-Squared: 0.6664
```

```
 regress23 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
data=data2, method='qr', x=TRUE, subset=margin<.15)
 robcov(regress23)

Linear Regression Model

ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
    data = data2, subset = margin < 0.15, method = "qr", x = TRUE)

        n Model L.R.       d.f.        R2      Sigma
     2190       3075        542    0.7544    0.05663

Residuals:
      Min        1Q     Median        3Q        Max
-2.734e-01 -2.822e-02 -5.009e-17  2.470e-02  4.110e-01

Coefficients:
                    Value Std. Error          t Pr(|t|)
Intercept        -6.765e-02  4.437e+26 -1.525e-28       1
dwin             -7.052e-03  3.043e+12 -2.318e-15       1
dv_c_t1           4.186e-01  2.872e+14  1.457e-15       1
dv_c_t1_2         9.220e+00  6.691e+15  1.378e-15       1
dv_c_t1_3         1.650e+02  7.232e+16  2.282e-15       1
dv_c_t1_4         7.010e+02  2.867e+17  2.445e-15       1
i_dv_c_t1         4.508e-02  5.778e+14  7.802e-17       1
i_dv_c_t1_2      -1.116e+01  5.924e+15 -1.883e-15       1
i_dv_c_t1_3      -1.124e+02  1.619e+17 -6.946e-16       1
i_dv_c_t1_4      -9.785e+02  1.476e+17 -6.630e-15       1
statesabbrev=AL   8.937e-03  2.912e+27  3.069e-30       1
statesabbrev=AR   2.925e-02  1.966e+27  1.488e-29       1
statesabbrev=AZ  -8.626e-02  4.437e+26 -1.944e-28       1
statesabbrev=CA   1.043e-01  1.439e+27  7.247e-29       1
statesabbrev=CO  -4.400e-02  4.437e+26 -9.918e-29       1
statesabbrev=CT   6.676e-03  4.437e+26  1.505e-29       1
statesabbrev=DE   7.125e-02  4.437e+26  1.606e-28       1
statesabbrev=FL   9.901e-02  7.329e+26  1.351e-28       1
statesabbrev=GA   1.090e-01  3.660e+27  2.978e-29       1
statesabbrev=HI   1.491e-01  8.265e+27  1.804e-29       1
statesabbrev=IA  -2.603e-02  4.437e+26 -5.866e-29       1
statesabbrev=ID  -6.667e-02  4.437e+26 -1.503e-28       1
statesabbrev=IL   7.089e-02  4.437e+26  1.598e-28       1
statesabbrev=IN  -4.800e-04  4.437e+26 -1.082e-30       1
```

```
statesabbrev=KS   -9.323e-02   4.437e+26 -2.101e-28            1
statesabbrev=KY    3.782e-02   4.437e+26  8.524e-29            1
statesabbrev=LA    7.118e-02   4.307e+27  1.652e-29            1
statesabbrev=MA    5.313e-03   4.437e+26  1.197e-29            1
statesabbrev=MD    1.646e-02   4.437e+26  3.711e-29            1
statesabbrev=ME   -6.513e-02   4.437e+26 -1.468e-28            1
statesabbrev=MI    1.699e-02   4.437e+26  3.829e-29            1
statesabbrev=MN    3.135e-02   4.437e+26  7.065e-29            1
statesabbrev=MO    7.107e-02   4.437e+26  1.602e-28            1
statesabbrev=MS    8.367e-02   1.997e+28  4.189e-30            1
statesabbrev=MT   -4.190e-02   4.437e+26 -9.443e-29            1
statesabbrev=NC   -1.449e-02   4.437e+26 -3.265e-29            1
statesabbrev=ND   -4.624e-02   2.042e+28 -2.265e-30            1
statesabbrev=NE   -4.488e-02   4.437e+26 -1.012e-28            1
statesabbrev=NH    6.361e-04   4.437e+26  1.434e-30            1
statesabbrev=NJ    3.401e-02   4.437e+26  7.666e-29            1
statesabbrev=NM    8.075e-02   1.024e+28  7.888e-30            1
statesabbrev=NV   -5.175e-02   4.437e+26 -1.166e-28            1
statesabbrev=NY   -6.090e-02   4.437e+26 -1.373e-28            1
statesabbrev=OH    5.347e-02   4.437e+26  1.205e-28            1
statesabbrev=OK    7.901e-02   4.437e+26  1.781e-28            1
statesabbrev=OR   -1.340e-02   4.437e+26 -3.020e-29            1
statesabbrev=PA    6.240e-02   4.437e+26  1.407e-28            1
statesabbrev=RI    6.250e-03   4.437e+26  1.409e-29            1
statesabbrev=SC    1.968e-02   9.848e+27  1.999e-30            1
statesabbrev=SD   -8.042e-02   4.437e+26 -1.813e-28            1
statesabbrev=TN   -6.138e-02   4.437e+26 -1.383e-28            1
statesabbrev=TX   -2.739e-02   4.437e+26 -6.175e-29            1
statesabbrev=UT   -2.688e-02   4.437e+26 -6.058e-29            1
statesabbrev=VA    1.410e-01   1.406e+27  1.003e-28            1
statesabbrev=VT    7.178e-02   4.806e+28  1.494e-30            1
statesabbrev=WA    1.072e-01   1.786e+27  6.000e-29            1
statesabbrev=WI   -1.144e-02   4.437e+26 -2.579e-29            1
statesabbrev=WV    6.348e-02   4.437e+26  1.431e-28            1
statesabbrev=WY   -4.702e-02   4.437e+26 -1.060e-28            1
t2_year=1956       3.337e-02   4.908e+27  6.799e-30            1
t2_year=1960       2.801e-02   4.437e+26  6.314e-29            1
t2_year=1964       2.132e-01   4.437e+26  4.805e-28            1
t2_year=1968       5.786e-02   4.437e+26  1.304e-28            1
t2_year=1972      -7.572e-02   4.437e+26 -1.707e-28            1
t2_year=1976      -4.110e-02   4.437e+26 -9.264e-29            1
t2_year=1980      -8.917e-02   4.437e+26 -2.010e-28            1
t2_year=1984      -9.787e-02   2.098e+27 -4.666e-29            1
t2_year=1988      -2.441e-02   4.437e+26 -5.501e-29            1
t2_year=1992       7.616e-03   4.437e+26  1.717e-29            1
t2_year=1996       2.497e-02   4.437e+26  5.629e-29            1
```

```
t2_year=2000       -5.131e-02  4.437e+26 -1.156e-28          1
t2_year=2004       -2.883e-02  4.962e+26 -5.809e-29          1
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stateyear=AL1976    1.080e-01  2.912e+27  3.710e-29          1
stateyear=AL1980    1.298e-01  2.912e+27  4.455e-29          1
stateyear=AL1984    4.600e-02  3.057e+27  1.505e-29          1
stateyear=AL1988   -5.180e-02  2.912e+27 -1.778e-29          1
stateyear=AL1996   -2.171e-02  2.912e+27 -7.454e-30          1
stateyear=AL2000    4.465e-02  2.912e+27  1.533e-29          1
stateyear=AL2004          NA  1.966e+27          NA         NA
stateyear=AR1968   -1.131e-01  1.966e+27 -5.754e-29          1
stateyear=AR1976    1.835e-01  1.966e+27  9.336e-29          1
stateyear=AR1980    1.514e-01  2.132e+27  7.103e-29          1
stateyear=AR1984    2.750e-02  1.966e+27  1.399e-29          1
stateyear=AR1988   -9.674e-03  1.966e+27 -4.921e-30          1
stateyear=AR1996    1.350e-01  1.966e+27  6.865e-29          1
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stateyear=AR2004          NA  4.437e+26          NA         NA
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stateyear=AZ1964   -5.714e-02  4.437e+26 -1.288e-28          1
stateyear=AZ1968    1.982e-02  4.437e+26  4.468e-29          1
stateyear=AZ1976    1.033e-01  2.098e+27  4.924e-29          1
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stateyear=AZ1988    1.307e-01  4.437e+26  2.946e-28          1
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stateyear=CA2004          NA  4.437e+26          NA         NA
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stateyear=C01968   -8.908e-03  2.098e+27 -4.247e-30          1
stateyear=C01976    8.934e-02  4.437e+26  2.014e-28          1
stateyear=C01980    8.272e-02  4.437e+26  1.864e-28          1
stateyear=C01984    7.153e-02  4.437e+26  1.612e-28          1
stateyear=C01988    1.270e-01  4.962e+26  2.558e-28          1
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stateyear=CT1968  1.230e-02  2.098e+27  5.865e-30         1
stateyear=CT1976  4.848e-02  4.437e+26  1.093e-28         1
stateyear=CT1980  7.139e-02  4.437e+26  1.609e-28         1
stateyear=CT1984  2.706e-02  4.437e+26  6.099e-29         1
stateyear=CT1988  7.717e-02  4.962e+26  1.555e-28         1
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stateyear=GA1988 -1.234e-01  8.265e+27 -1.493e-29         1
stateyear=GA2000  2.969e-03  4.908e+27  6.049e-31         1
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stateyear=HI2000        NA  4.437e+26        NA        NA
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stateyear=KS1968  3.608e-02  4.437e+26  8.131e-29          1
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stateyear=KY1960 -3.848e-03  4.437e+26 -8.674e-30          1
stateyear=KY1964 -3.921e-02  4.437e+26 -8.837e-29          1
stateyear=KY1968 -5.697e-02  4.437e+26 -1.284e-28          1
stateyear=KY1976  3.963e-03  4.437e+26  8.932e-30          1
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stateyear=LA1988  6.264e-02  2.098e+27  2.986e-29          1
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stateyear=MA2004  1.133e-01  2.098e+27  5.403e-29          1
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stateyear=MD1960 -1.753e-02  4.437e+26 -3.950e-29          1
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stateyear=MD2004  1.947e-01  4.437e+26  4.387e-28          1
stateyear=ME1956 -9.418e-02  4.437e+26 -2.123e-28          1
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stateyear=MS2004         NA   4.437e+26           NA        NA
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stateyear=MT1968  2.733e-02  4.437e+26  6.161e-29          1
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stateyear=NH1960  3.904e-02  4.962e+26  7.868e-29          1
stateyear=NH1964  1.191e-02  4.908e+27  2.427e-30          1
stateyear=NH1968 -2.281e-02  4.437e+26 -5.141e-29          1
stateyear=NH1976  8.011e-02  4.437e+26  1.806e-28          1
stateyear=NH1980 -8.776e-02  4.437e+26 -1.978e-28          1
stateyear=NH1984 -5.726e-02  4.437e+26 -1.291e-28          1
stateyear=NH1988 -3.235e-02  4.437e+26 -7.292e-29          1
stateyear=NH1996  1.166e-01  4.437e+26  2.628e-28          1
```

```
stateyear=NH2000   1.340e-01   4.437e+26   3.020e-28           1
stateyear=NH2004   1.412e-01   4.437e+26   3.183e-28           1
stateyear=NJ1956  -1.458e-01   4.962e+26  -2.939e-28           1
stateyear=NJ1960   1.194e-02   1.024e+28   1.166e-30           1
stateyear=NJ1964  -8.658e-03   1.024e+28  -8.458e-31           1
stateyear=NJ1968  -3.308e-02   1.024e+28  -3.232e-30           1
stateyear=NJ1976   2.623e-02   1.053e+28   2.491e-30           1
stateyear=NJ1980   1.936e-02   1.024e+28   1.891e-30           1
stateyear=NJ1988  -2.408e-02   1.024e+28  -2.353e-30           1
stateyear=NJ1996   1.195e-01   4.908e+27   2.434e-29           1
stateyear=NJ2000   1.595e-01   4.437e+26   3.595e-28           1
stateyear=NJ2004   5.216e-02   2.098e+27   2.487e-29           1
stateyear=NM1964  -1.629e-01   4.437e+26  -3.672e-28           1
stateyear=NM1976   6.283e-02   4.437e+26   1.416e-28           1
stateyear=NM1980   6.479e-02   4.437e+26   1.460e-28           1
stateyear=NM1984  -2.500e-02   4.962e+26  -5.038e-29           1
stateyear=NM1988  -1.623e-02   4.908e+27  -3.308e-30           1
stateyear=NM2000   4.525e-02   4.437e+26   1.020e-28           1
stateyear=NM2004         NA   4.437e+26          NA          NA
stateyear=NV1956   1.759e-02   4.437e+26   3.964e-29           1
stateyear=NV1976   9.040e-02   4.437e+26   2.038e-28           1
stateyear=NV1984   4.453e-02   4.437e+26   1.004e-28           1
stateyear=NV1988   4.601e-02   4.437e+26   1.037e-28           1
stateyear=NV1996   1.767e-01   2.098e+27   8.422e-29           1
stateyear=NV2000   2.322e-01   4.437e+26   5.233e-28           1
stateyear=NV2004   1.950e-01   4.437e+26   4.394e-28           1
stateyear=NY1956  -6.721e-02   4.437e+26  -1.515e-28           1
stateyear=NY1960   1.008e-01   4.437e+26   2.271e-28           1
stateyear=NY1964   6.829e-02   4.962e+26   1.376e-28           1
stateyear=NY1968   3.262e-02   4.908e+27   6.645e-30           1
stateyear=NY1972   2.658e-01   4.437e+26   5.991e-28           1
stateyear=NY1976   1.238e-01   4.437e+26   2.790e-28           1
stateyear=NY1980   1.352e-01   4.437e+26   3.047e-28           1
stateyear=NY1984   1.295e-01   4.437e+26   2.919e-28           1
stateyear=NY1988   1.260e-01   4.437e+26   2.840e-28           1
stateyear=NY1992   6.343e-02   2.098e+27   3.024e-29           1
stateyear=NY1996   2.119e-01   4.437e+26   4.776e-28           1
stateyear=NY2000   2.480e-01   4.437e+26   5.590e-28           1
stateyear=NY2004   1.497e-01   4.437e+26   3.374e-28           1
stateyear=OH1956  -1.260e-01   4.962e+26  -2.540e-28           1
stateyear=OH1960  -6.666e-02   4.908e+27  -1.358e-29           1
stateyear=OH1964  -5.669e-02   4.437e+26  -1.278e-28           1
stateyear=OH1972   9.877e-02   4.437e+26   2.226e-28           1
stateyear=OH1976   3.480e-02   4.437e+26   7.845e-29           1
stateyear=OH1980   5.814e-02   4.437e+26   1.311e-28           1
stateyear=OH1984  -6.098e-03   2.098e+27  -2.907e-30           1
```

```
stateyear=OH1988 -3.966e-02  4.437e+26 -8.939e-29        1
stateyear=OH1996  5.015e-02  4.437e+26  1.130e-28        1
stateyear=OH2000  3.534e-02  4.437e+26  7.966e-29        1
stateyear=OH2004  6.847e-02  4.962e+26  1.380e-28        1
stateyear=OK1956 -1.571e-01  4.908e+27 -3.201e-29        1
stateyear=OK1960 -1.819e-01  4.437e+26 -4.099e-28        1
stateyear=OK1964 -1.463e-01  4.437e+26 -3.297e-28        1
stateyear=OK1976 -1.858e-02  4.437e+26 -4.188e-29        1
stateyear=OK1980 -7.858e-02  4.437e+26 -1.771e-28        1
stateyear=OK1984 -1.332e-01  4.437e+26 -3.002e-28        1
stateyear=OK1988 -8.086e-02  2.098e+27 -3.855e-29        1
stateyear=OK1996 -4.340e-02  4.437e+26 -9.783e-29        1
stateyear=OK2000  4.627e-03  4.437e+26  1.043e-29        1
stateyear=OK2004 -1.276e-01  4.437e+26 -2.877e-28        1
stateyear=OR1956  1.591e-02  4.962e+26  3.206e-29        1
stateyear=OR1960  1.319e-03  4.908e+27  2.687e-31        1
stateyear=OR1964 -4.081e-02  4.437e+26 -9.199e-29        1
stateyear=OR1968 -4.193e-02  4.437e+26 -9.451e-29        1
stateyear=OR1976  9.535e-02  4.437e+26  2.149e-28        1
stateyear=OR1980  6.131e-02  4.437e+26  1.382e-28        1
stateyear=OR1984  8.727e-02  4.437e+26  1.967e-28        1
stateyear=OR1988  1.135e-01  4.437e+26  2.557e-28        1
stateyear=OR1996  8.748e-02  2.098e+27  4.170e-29        1
stateyear=OR2000  1.067e-01  4.437e+26  2.405e-28        1
stateyear=OR2004  9.768e-02  4.437e+26  2.202e-28        1
stateyear=PA1956 -1.073e-01  4.437e+26 -2.419e-28        1
stateyear=PA1960 -2.714e-02  4.437e+26 -6.118e-29        1
stateyear=PA1964 -5.216e-02  4.962e+26 -1.051e-28        1
stateyear=PA1968 -2.367e-02  4.908e+27 -4.823e-30        1
stateyear=PA1972  1.337e-01  4.437e+26  3.014e-28        1
stateyear=PA1976  1.247e-02  4.437e+26  2.812e-29        1
stateyear=PA1980  4.208e-02  4.437e+26  9.486e-29        1
stateyear=PA1984  2.713e-02  2.098e+27  1.293e-29        1
stateyear=PA1988 -2.652e-02  4.437e+26 -5.977e-29        1
stateyear=PA1992 -1.088e-02  4.437e+26 -2.452e-29        1
stateyear=PA1996  1.948e-02  4.962e+26  3.925e-29        1
stateyear=PA2000  7.787e-02  9.848e+27  7.907e-30        1
stateyear=PA2004  4.983e-02  9.848e+27  5.060e-30        1
stateyear=RI1956 -9.777e-02  9.848e+27 -9.928e-30        1
stateyear=RI1960  1.140e-01  9.848e+27  1.158e-29        1
stateyear=RI1968  1.610e-01  9.639e+27  1.670e-29        1
stateyear=RI1980  1.838e-01  9.848e+27  1.867e-29        1
stateyear=RI1984  1.239e-01  9.848e+27  1.258e-29        1
stateyear=RI1988  1.304e-01  4.908e+27  2.657e-29        1
stateyear=RI1996  2.258e-01  4.437e+26  5.089e-28        1
stateyear=RI2004  1.665e-01  4.437e+26  3.753e-28        1
```

```
stateyear=SC1964 -3.275e-01  4.437e+26 -7.381e-28          1
stateyear=SC1968 -7.239e-02  4.437e+26 -1.632e-28          1
stateyear=SC1976  1.313e-01  4.437e+26  2.959e-28          1
stateyear=SC1980  8.681e-02  2.098e+27  4.138e-29          1
stateyear=SC1984  3.330e-02  4.437e+26  7.505e-29          1
stateyear=SC1988 -5.578e-02  4.437e+26 -1.257e-28          1
stateyear=SC1996  4.928e-02  4.908e+27  1.004e-29          1
stateyear=SC2000        NA  4.437e+26         NA         NA
stateyear=SD1956  6.619e-02  4.437e+26  1.492e-28          1
stateyear=SD1960  3.883e-02  4.437e+26  8.752e-29          1
stateyear=SD1964  2.892e-02  4.437e+26  6.518e-29          1
stateyear=SD1968  6.598e-02  4.437e+26  1.487e-28          1
stateyear=SD1976  2.107e-01  4.437e+26  4.748e-28          1
stateyear=SD1980  9.237e-02  2.098e+27  4.404e-29          1
stateyear=SD1984  1.129e-01  4.437e+26  2.544e-28          1
stateyear=SD1988  1.003e-01  4.437e+26  2.260e-28          1
stateyear=SD1996  4.966e-02  4.437e+26  1.119e-28          1
stateyear=TN1956 -1.597e-02  4.962e+26 -3.217e-29          1
stateyear=TN1960 -7.606e-02  4.908e+27 -1.550e-29          1
stateyear=TN1964 -8.837e-02  4.437e+26 -1.992e-28          1
stateyear=TN1968  1.652e-02  4.437e+26  3.723e-29          1
stateyear=TN1972  2.645e-01  4.437e+26  5.962e-28          1
stateyear=TN1976  1.901e-01  4.437e+26  4.285e-28          1
stateyear=TN1980  2.136e-01  4.437e+26  4.814e-28          1
stateyear=TN1984  5.491e-02  4.437e+26  1.238e-28          1
stateyear=TN1988  1.967e-02  4.437e+26  4.434e-29          1
stateyear=TN1996  1.367e-01  4.908e+27  2.786e-29          1
stateyear=TN2000  1.537e-01  4.437e+26  3.465e-28          1
stateyear=TN2004  6.780e-02  4.437e+26  1.528e-28          1
stateyear=TX1956 -7.612e-02  4.437e+26 -1.716e-28          1
stateyear=TX1960 -5.269e-02  4.437e+26 -1.188e-28          1
stateyear=TX1964 -6.243e-02  4.437e+26 -1.407e-28          1
stateyear=TX1976  8.878e-02  2.098e+27  4.233e-29          1
stateyear=TX1980  9.832e-02  4.437e+26  2.216e-28          1
stateyear=TX1988  4.219e-02  4.437e+26  9.510e-29          1
stateyear=TX1996  6.997e-02  4.437e+26  1.577e-28          1
stateyear=TX2000  5.823e-02  4.962e+26  1.173e-28          1
stateyear=UT1956 -6.717e-02  4.884e+27 -1.375e-29          1
stateyear=UT1960  2.309e-02  1.406e+27  1.643e-29          1
stateyear=UT1964 -7.026e-02  1.406e+27 -4.999e-29          1
stateyear=UT1968  1.571e-02  1.406e+27  1.118e-29          1
stateyear=UT1976  9.208e-03  1.406e+27  6.551e-30          1
stateyear=UT1980 -6.607e-02  1.406e+27 -4.700e-29          1
stateyear=UT1984 -9.332e-03  2.156e+27 -4.329e-30          1
stateyear=UT1988 -4.896e-02  1.406e+27 -3.484e-29          1
stateyear=UT1996 -4.161e-02  1.406e+27 -2.960e-29          1
```

```
stateyear=UT2000  3.202e-02  1.406e+27  2.278e-29          1
stateyear=UT2004 -5.584e-02  4.741e+28 -1.178e-30          1
stateyear=VA1956 -2.129e-01  4.806e+28 -4.430e-30          1
stateyear=VA1960 -1.392e-01  4.806e+28 -2.897e-30          1
stateyear=VA1964 -2.525e-01  4.700e+27 -5.371e-29          1
stateyear=VA1968 -2.136e-01  1.786e+27 -1.196e-28          1
stateyear=VA1976 -1.441e-02  1.786e+27 -8.066e-30          1
stateyear=VA1980 -4.687e-02  1.786e+27 -2.624e-29          1
stateyear=VA1984 -8.355e-02  1.786e+27 -4.677e-29          1
stateyear=VA1988 -1.190e-01  1.786e+27 -6.663e-29          1
stateyear=VA1996 -1.191e-01  1.786e+27 -6.668e-29          1
stateyear=VA2000 -1.339e-01  1.786e+27 -7.497e-29          1
stateyear=VA2004         NA  1.786e+27         NA         NA
stateyear=VT1956 -2.053e-01  4.908e+27 -4.183e-29          1
stateyear=VT1960 -1.183e-01  4.437e+26 -2.666e-28          1
stateyear=VT1964 -3.208e-02  4.437e+26 -7.230e-29          1
stateyear=VT1976         NA  4.437e+26         NA         NA
stateyear=WA1956 -9.525e-02  4.437e+26 -2.147e-28          1
stateyear=WA1960 -8.241e-02  4.437e+26 -1.857e-28          1
stateyear=WA1964 -9.191e-02  2.098e+27 -4.382e-29          1
stateyear=WA1968 -1.477e-01  4.437e+26 -3.329e-28          1
stateyear=WA1976 -7.241e-02  4.437e+26 -1.632e-28          1
stateyear=WA1980 -5.319e-02  4.437e+26 -1.199e-28          1
stateyear=WA1988 -7.275e-03  4.962e+26 -1.466e-29          1
stateyear=WA1996 -1.920e-02  4.908e+27 -3.911e-30          1
stateyear=WA2000  2.610e-02  4.437e+26  5.883e-29          1
stateyear=WA2004         NA  4.437e+26         NA         NA
stateyear=WI1956 -5.344e-02  4.437e+26 -1.204e-28          1
stateyear=WI1960 -4.773e-03  4.437e+26 -1.076e-29          1
stateyear=WI1968 -9.556e-03  4.437e+26 -2.154e-29          1
stateyear=WI1972  1.588e-01  4.437e+26  3.579e-28          1
stateyear=WI1976  9.506e-02  4.437e+26  2.143e-28          1
stateyear=WI1980  1.088e-01  4.962e+26  2.193e-28          1
stateyear=WI1984  1.294e-01  4.437e+26  2.917e-28          1
stateyear=WI1988  1.423e-01  4.437e+26  3.207e-28          1
stateyear=WI1996  1.394e-01  4.437e+26  3.142e-28          1
stateyear=WI2000  1.339e-01  4.437e+26  3.017e-28          1
stateyear=WI2004  5.752e-02  4.437e+26  1.297e-28          1
stateyear=WV1956 -1.042e-01  4.437e+26 -2.348e-28          1
stateyear=WV1960 -4.570e-02  4.437e+26 -1.030e-28          1
stateyear=WV1964 -6.266e-02  4.437e+26 -1.412e-28          1
stateyear=WV1976  5.046e-02  2.625e+27  1.922e-29          1
stateyear=WV1980  6.199e-02  2.155e+27  2.876e-29          1
stateyear=WV1984         NA  1.338e+27         NA         NA
stateyear=WV1988 -1.484e-03  9.256e+26 -1.603e-30          1
stateyear=WV1992 -5.047e-03  3.970e+27 -1.271e-30          1
```

```
stateyear=WV1996  1.827e-02  8.265e+27  2.211e-30         1
stateyear=WV2004  4.614e-03  4.307e+27  1.071e-30         1
stateyear=WY1956         NA  2.002e+28         NA        NA
stateyear=WY1960  4.615e-02  2.054e+28  2.247e-30         1
stateyear=WY1964  2.104e-02  1.026e+28  2.050e-30         1
stateyear=WY1968 -4.754e-02  9.848e+27 -4.827e-30         1
stateyear=WY1972  2.361e-03  1.223e+27  1.930e-30         1
stateyear=WY1976  4.286e-02  4.806e+28  8.919e-31         1
stateyear=WY1980  4.694e-02  2.017e+27  2.327e-29         1
stateyear=WY1992  8.361e-02  2.098e+27  3.986e-29         1
stateyear=WY1996  3.486e-02  4.908e+27  7.104e-30         1
stateyear=WY2000         NA  4.437e+26         NA        NA
stateyear=WY2004         NA  4.962e+26         NA        NA
```

Residual standard error: 0.05663 on 1647 degrees of freedom
Adjusted R-Squared: 0.6736

```
 regress24 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
data=data2, method='qr', x=TRUE, subset=margin<.1)
 robcov(regress24)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
    data = data2, subset = margin < 0.1, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
1490	2151	498	0.7639	0.05572

Residuals:

Min	1Q	Median	3Q	Max
-2.675e-01	-2.601e-02	-3.995e-17	2.169e-02	2.675e-01

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-1.433e-01	9.195e+26	-1.559e-28	1
dwin	-1.083e-02	1.277e+13	-8.485e-16	1
dv_c_t1	1.146e+00	7.369e+14	1.555e-15	1
dv_c_t1_2	3.206e+01	3.269e+16	9.809e-16	1
dv_c_t1_3	4.010e+02	5.091e+17	7.876e-16	1
dv_c_t1_4	1.383e+03	2.121e+18	6.520e-16	1
i_dv_c_t1	-8.899e-01	1.363e+15	-6.530e-16	1
i_dv_c_t1_2	-1.773e+01	6.180e+16	-2.869e-16	1
i_dv_c_t1_3	-6.973e+02	9.403e+17	-7.416e-16	1
i_dv_c_t1_4	4.576e+02	6.240e+18	7.333e-17	1
statesabbrev=AL	1.003e-01	1.101e+28	9.111e-30	1
statesabbrev=AR	1.952e-01	9.245e+27	2.112e-29	1
statesabbrev=AZ	1.480e-01	1.089e+28	1.359e-29	1
statesabbrev=CA	1.974e-01	3.018e+27	6.542e-29	1
statesabbrev=CO	3.758e-02	9.195e+26	4.087e-29	1
statesabbrev=CT	8.717e-02	9.195e+26	9.480e-29	1
statesabbrev=DE	1.503e-01	9.195e+26	1.635e-28	1
statesabbrev=FL	1.710e-01	2.506e+27	6.822e-29	1
statesabbrev=GA	1.942e-01	2.388e+28	8.130e-30	1
statesabbrev=HI	1.993e-01	1.391e+28	1.433e-29	1
statesabbrev=IA	7.115e-02	9.195e+26	7.738e-29	1
statesabbrev=ID	1.238e-02	9.195e+26	1.346e-29	1
statesabbrev=IL	1.396e-01	9.195e+26	1.518e-28	1
statesabbrev=IN	8.009e-02	9.195e+26	8.710e-29	1

statesabbrev=KS	-9.641e-03	9.195e+26	-1.048e-29	1
statesabbrev=KY	1.174e-01	9.195e+26	1.277e-28	1
statesabbrev=LA	1.447e-01	1.868e+28	7.746e-30	1
statesabbrev=MA	7.830e-02	9.195e+26	8.516e-29	1
statesabbrev=MD	9.878e-02	9.195e+26	1.074e-28	1
statesabbrev=ME	2.096e-02	9.195e+26	2.280e-29	1
statesabbrev=MI	7.784e-02	9.195e+26	8.466e-29	1
statesabbrev=MN	7.813e-02	9.195e+26	8.497e-29	1
statesabbrev=MO	1.520e-01	9.195e+26	1.653e-28	1
statesabbrev=MS	2.548e-01	1.004e+28	2.538e-29	1
statesabbrev=MT	5.196e-02	9.195e+26	5.651e-29	1
statesabbrev=NC	8.406e-02	9.195e+26	9.142e-29	1
statesabbrev=ND	3.797e-02	1.930e+28	1.967e-30	1
statesabbrev=NE	-5.515e-02	9.195e+26	-5.998e-29	1
statesabbrev=NH	8.734e-02	9.195e+26	9.499e-29	1
statesabbrev=NJ	1.354e-01	9.195e+26	1.473e-28	1
statesabbrev=NM	1.652e-01	1.332e+28	1.240e-29	1
statesabbrev=NV	2.713e-02	9.195e+26	2.951e-29	1
statesabbrev=NY	8.119e-02	9.195e+26	8.830e-29	1
statesabbrev=OH	1.613e-01	9.195e+26	1.755e-28	1
statesabbrev=OK	1.603e-01	9.195e+26	1.743e-28	1
statesabbrev=OR	6.893e-02	9.195e+26	7.497e-29	1
statesabbrev=PA	1.445e-01	9.195e+26	1.571e-28	1
statesabbrev=RI	2.777e-01	1.883e+29	1.474e-30	1
statesabbrev=SC	9.563e-02	1.165e+28	8.209e-30	1
statesabbrev=SD	2.029e-02	4.188e+27	4.844e-30	1
statesabbrev=TN	2.898e-02	9.195e+26	3.151e-29	1
statesabbrev=TX	5.172e-02	9.195e+26	5.624e-29	1
statesabbrev=UT	5.253e-02	9.195e+26	5.713e-29	1
statesabbrev=VA	6.608e-02	1.190e+28	5.555e-30	1
statesabbrev=VT	6.909e-02	7.190e+27	9.610e-30	1
statesabbrev=WA	2.114e-01	6.658e+27	3.175e-29	1
statesabbrev=WI	6.829e-02	9.195e+26	7.427e-29	1
statesabbrev=WV	1.394e-01	9.195e+26	1.517e-28	1
statesabbrev=WY	3.385e-02	9.195e+26	3.681e-29	1
t2_year=1956	3.164e-02	7.674e+27	4.123e-30	1
t2_year=1960	1.117e-01	9.195e+26	1.215e-28	1
t2_year=1964	2.922e-01	9.195e+26	3.177e-28	1
t2_year=1968	1.404e-01	9.195e+26	1.527e-28	1
t2_year=1972	3.965e-03	9.195e+26	4.313e-30	1
t2_year=1976	4.077e-02	9.195e+26	4.434e-29	1
t2_year=1980	-9.556e-03	9.195e+26	-1.039e-29	1
t2_year=1984	-7.444e-02	5.101e+27	-1.459e-29	1
t2_year=1988	5.597e-02	9.195e+26	6.087e-29	1
t2_year=1992	9.043e-02	9.195e+26	9.834e-29	1
t2_year=1996	5.808e-02	2.475e+27	2.347e-29	1

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t2_year=2004       -3.385e-02  1.733e+27 -1.953e-29        1
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stateyear=AL1976   -2.419e-02  1.101e+28 -2.196e-30        1
stateyear=AL1980    2.594e-02  1.101e+28  2.355e-30        1
stateyear=AL1984    1.442e-03  8.564e+27  1.684e-31        1
stateyear=AL1988   -1.470e-01  1.101e+28 -1.335e-29        1
stateyear=AL1996   -3.787e-02  1.007e+28 -3.762e-30        1
stateyear=AL2000    2.678e-02  1.386e+28  1.932e-30        1
stateyear=AL2004          NA  9.245e+27         NA       NA
stateyear=AR1968   -2.790e-01  9.245e+27 -3.017e-29        1
stateyear=AR1976    1.811e-02  9.245e+27  1.959e-30        1
stateyear=AR1980   -1.262e-02  1.137e+28 -1.110e-30        1
stateyear=AR1984   -6.442e-02  1.046e+28 -6.160e-30        1
stateyear=AR1996    1.751e-02  1.575e+28  1.111e-30        1
stateyear=AR2000          NA  1.089e+28         NA       NA
stateyear=AZ1956   -1.513e-01  1.089e+28 -1.390e-29        1
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stateyear=CA2000    2.772e-02  9.195e+26  3.015e-29        1
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stateyear=CO1980   -5.237e-03  3.043e+27 -1.721e-30        1
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stateyear=CO2004    1.190e-01  9.195e+26  1.294e-28        1
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stateyear=HI1976 -1.402e-01  9.195e+26 -1.525e-28           1
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stateyear=IA1988  6.189e-02  9.195e+26  6.731e-29           1
stateyear=IA1996  1.046e-01  9.195e+26  1.138e-28           1
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```

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stateyear=LA1988 -9.228e-03  2.475e+27 -3.729e-30         1
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stateyear=NC1988 -1.032e-01  1.866e+28 -5.532e-30          1
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stateyear=ND1996   1.276e-03   9.195e+26   1.388e-30        1
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stateyear=ND2004         NA   7.674e+27         NA       NA
stateyear=NE1956   6.055e-02   9.195e+26   6.586e-29        1
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stateyear=NE1964  -3.552e-02   9.195e+26  -3.863e-29        1
stateyear=NE1972   3.377e-03   9.195e+26   3.673e-30        1
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stateyear=NE1984   1.256e-01   2.475e+27   5.075e-29        1
stateyear=NE1988   1.028e-01   3.043e+27   3.379e-29        1
stateyear=NE1996   6.527e-02   1.733e+27   3.766e-29        1
stateyear=NH1956  -1.186e-01   7.674e+27  -1.545e-29        1
stateyear=NH1960  -4.894e-02   9.195e+26  -5.323e-29        1
stateyear=NH1964  -7.255e-02   9.195e+26  -7.890e-29        1
stateyear=NH1968  -1.129e-01   9.195e+26  -1.228e-28        1
stateyear=NH1976  -4.949e-02   9.195e+26  -5.382e-29        1
stateyear=NH1984  -8.756e-02   9.195e+26  -9.522e-29        1
stateyear=NH1988  -1.203e-01   9.195e+26  -1.309e-28        1
stateyear=NH1996   7.968e-02   2.475e+27   3.220e-29        1
stateyear=NH2000   1.220e-01   3.043e+27   4.011e-29        1
stateyear=NH2004   1.518e-01   1.733e+27   8.757e-29        1
stateyear=NJ1956  -1.425e-01   1.332e+28  -1.070e-29        1
stateyear=NJ1960  -9.463e-02   1.332e+28  -7.105e-30        1
stateyear=NJ1964  -1.069e-01   1.348e+28  -7.927e-30        1
stateyear=NJ1968  -1.150e-01   1.506e+28  -7.639e-30        1
stateyear=NJ1976  -7.641e-02   7.674e+27  -9.956e-30        1
stateyear=NJ1980  -9.643e-02   5.101e+27  -1.890e-29        1
stateyear=NJ1988  -2.029e-01   9.195e+26  -2.207e-28        1
stateyear=NJ1996   8.429e-02   2.475e+27   3.406e-29        1
stateyear=NJ2000   1.127e-01   3.043e+27   3.705e-29        1
stateyear=NJ2004   5.131e-02   1.733e+27   2.960e-29        1
stateyear=NM1964  -2.206e-01   7.674e+27  -2.875e-29        1
stateyear=NM1976  -1.765e-02   9.195e+26  -1.920e-29        1
stateyear=NM1984  -5.940e-02   9.195e+26  -6.460e-29        1
stateyear=NM2000   3.512e-02   9.195e+26   3.820e-29        1
stateyear=NM2004         NA   9.195e+26         NA       NA
stateyear=NV1956   2.131e-02   9.195e+26   2.318e-29        1
stateyear=NV1984   2.381e-02   5.101e+27   4.669e-30        1
stateyear=NV1988  -3.264e-02   9.195e+26  -3.550e-29        1
stateyear=NV1996   1.434e-01   2.475e+27   5.795e-29        1
```

```
stateyear=NV2000   2.265e-01   3.043e+27   7.445e-29           1
stateyear=NV2004   2.101e-01   1.733e+27   1.212e-28           1
stateyear=NY1956  -1.314e-01   7.674e+27  -1.712e-29           1
stateyear=NY1960  -3.901e-02   9.195e+26  -4.242e-29           1
stateyear=NY1964  -8.844e-02   9.195e+26  -9.618e-29           1
stateyear=NY1968  -1.367e-01   9.195e+26  -1.487e-28           1
stateyear=NY1976  -2.236e-02   9.195e+26  -2.431e-29           1
stateyear=NY1980  -6.128e-03   9.195e+26  -6.664e-30           1
stateyear=NY1984   5.413e-02   5.101e+27   1.061e-29           1
stateyear=NY1988  -1.231e-02   9.195e+26  -1.339e-29           1
stateyear=NY1996   1.097e-01   2.475e+27   4.434e-29           1
stateyear=NY2000   1.317e-01   3.043e+27   4.328e-29           1
stateyear=NY2004   9.997e-02   1.733e+27   5.768e-29           1
stateyear=OH1956  -1.473e-01   7.674e+27  -1.919e-29           1
stateyear=OH1960  -1.792e-01   9.195e+26  -1.949e-28           1
stateyear=OH1964  -1.672e-01   9.195e+26  -1.818e-28           1
stateyear=OH1972  -6.302e-03   9.195e+26  -6.853e-30           1
stateyear=OH1976  -8.435e-02   9.195e+26  -9.174e-29           1
stateyear=OH1980  -4.719e-02   5.101e+27  -9.252e-30           1
stateyear=OH1984  -3.781e-02   9.195e+26  -4.112e-29           1
stateyear=OH1988  -9.301e-02   2.475e+27  -3.759e-29           1
stateyear=OH1996  -1.039e-02   3.043e+27  -3.414e-30           1
stateyear=OH2000  -7.001e-03   1.733e+27  -4.039e-30           1
stateyear=OH2004  -8.552e-03   7.674e+27  -1.114e-30           1
stateyear=OK1956  -1.636e-01   9.195e+26  -1.779e-28           1
stateyear=OK1960  -2.642e-01   9.195e+26  -2.873e-28           1
stateyear=OK1964  -2.261e-01   9.195e+26  -2.458e-28           1
stateyear=OK1976  -1.017e-01   9.195e+26  -1.106e-28           1
stateyear=OK1980  -1.667e-01   5.101e+27  -3.269e-29           1
stateyear=OK1984  -1.592e-01   9.195e+26  -1.732e-28           1
stateyear=OK1988  -1.634e-01   2.475e+27  -6.602e-29           1
stateyear=OK1996  -6.275e-02   3.043e+27  -2.062e-29           1
stateyear=OK2000   4.116e-02   1.733e+27   2.374e-29           1
stateyear=OK2004  -1.234e-01   7.674e+27  -1.608e-29           1
stateyear=OR1956   1.449e-02   9.195e+26   1.576e-29           1
stateyear=OR1960  -7.471e-02   9.195e+26  -8.125e-29           1
stateyear=OR1964  -8.316e-02   9.195e+26  -9.045e-29           1
stateyear=OR1976   1.118e-02   9.195e+26   1.216e-29           1
stateyear=OR1980  -1.078e-02   9.195e+26  -1.172e-29           1
stateyear=OR1984   6.174e-02   5.101e+27   1.210e-29           1
stateyear=OR1988   5.770e-02   9.195e+26   6.275e-29           1
stateyear=OR1996   5.471e-02   9.195e+26   5.950e-29           1
stateyear=OR2000   1.228e-01   2.475e+27   4.963e-29           1
stateyear=OR2004   9.033e-02   3.043e+27   2.969e-29           1
stateyear=PA1956  -1.086e-01   1.733e+27  -6.264e-29           1
stateyear=PA1960  -1.269e-01   1.932e+29  -6.567e-31           1
```

```
stateyear=PA1964 -1.225e-01  1.883e+29 -6.505e-31          1
stateyear=PA1968 -9.399e-02  1.883e+29 -4.991e-31          1
stateyear=PA1976 -7.467e-02  1.854e+29 -4.028e-31          1
stateyear=PA1980 -3.310e-02  1.883e+29 -1.758e-31          1
stateyear=PA1984 -1.045e-02  1.165e+28 -8.967e-31          1
stateyear=PA1988 -1.129e-01  1.165e+28 -9.692e-30          1
stateyear=PA1992 -4.218e-02  1.165e+28 -3.621e-30          1
stateyear=PA1996 -1.862e-02  1.165e+28 -1.599e-30          1
stateyear=PA2000  6.753e-02  1.037e+28  6.513e-30          1
stateyear=PA2004  4.456e-02  1.165e+28  3.825e-30          1
stateyear=RI1956 -2.774e-01  1.173e+28 -2.364e-29          1
stateyear=RI1968 -1.102e-01  9.235e+27 -1.193e-29          1
stateyear=RI1980 -7.252e-02  4.188e+27 -1.732e-29          1
stateyear=RI1984 -6.918e-02  4.188e+27 -1.652e-29          1
stateyear=RI1988 -1.376e-01  4.188e+27 -3.284e-29          1
stateyear=RI1996        NA  4.188e+27         NA         NA
stateyear=SC1964 -4.035e-01  5.073e+27 -7.954e-29          1
stateyear=SC1968 -2.271e-01  7.674e+27 -2.959e-29          1
stateyear=SC1976  9.157e-02  9.195e+26  9.958e-29          1
stateyear=SC1980  3.469e-02  9.195e+26  3.773e-29          1
stateyear=SC1984  2.373e-02  9.195e+26  2.581e-29          1
stateyear=SC1988 -1.306e-01  9.195e+26 -1.420e-28          1
stateyear=SC1996 -1.165e-02  5.101e+27 -2.285e-30          1
stateyear=SC2000        NA  9.195e+26         NA         NA
stateyear=SD1956  5.139e-02  2.475e+27  2.077e-29          1
stateyear=SD1960 -6.650e-02  3.043e+27 -2.186e-29          1
stateyear=SD1964 -5.747e-02  1.733e+27 -3.316e-29          1
stateyear=SD1976  1.079e-01  7.674e+27  1.406e-29          1
stateyear=SD1980 -8.502e-03  9.195e+26 -9.247e-30          1
stateyear=SD1984  6.865e-02  9.195e+26  7.466e-29          1
stateyear=SD1988        NA  9.195e+26         NA         NA
stateyear=TN1956 -7.212e-03  9.195e+26 -7.843e-30          1
stateyear=TN1960 -1.677e-01  9.195e+26 -1.824e-28          1
stateyear=TN1964 -1.773e-01  2.475e+27 -7.163e-29          1
stateyear=TN1976  9.234e-02  3.043e+27  3.035e-29          1
stateyear=TN1980  1.887e-01  7.674e+27  2.458e-29          1
stateyear=TN1984  3.298e-02  9.195e+26  3.586e-29          1
stateyear=TN1988 -7.245e-02  9.195e+26 -7.879e-29          1
stateyear=TN1996  1.196e-01  9.195e+26  1.301e-28          1
stateyear=TN2000  1.394e-01  9.195e+26  1.516e-28          1
stateyear=TN2004  6.132e-02  5.101e+27  1.202e-29          1
stateyear=TX1956 -8.187e-02  9.195e+26 -8.903e-29          1
stateyear=TX1960 -1.325e-01  2.475e+27 -5.354e-29          1
stateyear=TX1964 -1.447e-01  3.043e+27 -4.755e-29          1
stateyear=TX1976  2.092e-02  1.733e+27  1.207e-29          1
stateyear=TX1980  1.102e-02  1.418e+28  7.772e-31          1
```

```
stateyear=TX1988 -1.988e-02  1.190e+28 -1.671e-30          1
stateyear=TX1996  2.299e-02  1.190e+28  1.933e-30          1
stateyear=TX2000  2.876e-02  1.190e+28  2.417e-30          1
stateyear=UT1956 -6.396e-02  1.190e+28 -5.377e-30          1
stateyear=UT1960 -5.902e-02  1.190e+28 -4.962e-30          1
stateyear=UT1964 -1.475e-01  1.209e+28 -1.220e-29          1
stateyear=UT1976 -7.195e-02  1.190e+28 -6.049e-30          1
stateyear=UT1980 -2.071e-01  7.190e+27 -2.881e-29          1
stateyear=UT1984 -9.758e-03  7.190e+27 -1.357e-30          1
stateyear=UT1988 -1.271e-01  8.680e+27 -1.464e-29          1
stateyear=UT1996 -7.692e-02  6.658e+27 -1.155e-29          1
stateyear=UT2000  2.662e-02  6.658e+27  3.998e-30          1
stateyear=UT2004 -4.333e-02  6.658e+27 -6.508e-30          1
stateyear=VA1956 -5.566e-02  6.658e+27 -8.360e-30          1
stateyear=VA1960 -6.699e-02  6.658e+27 -1.006e-29          1
stateyear=VA1964 -1.811e-01  6.658e+27 -2.719e-29          1
stateyear=VA1968 -1.403e-01  7.405e+27 -1.894e-29          1
stateyear=VA1976  4.611e-02  7.674e+27  6.009e-30          1
stateyear=VA1980 -3.267e-02  9.195e+26 -3.553e-29          1
stateyear=VA1984  5.181e-02  9.195e+26  5.635e-29          1
stateyear=VA1988 -7.780e-02  9.195e+26 -8.461e-29          1
stateyear=VA1996        NA  9.195e+26         NA         NA
stateyear=VT1960 -1.193e-01  9.195e+26 -1.297e-28          1
stateyear=VT1964 -2.925e-02  5.101e+27 -5.734e-30          1
stateyear=VT1976        NA  9.195e+26         NA         NA
stateyear=WA1956 -1.265e-01  2.475e+27 -5.113e-29          1
stateyear=WA1960 -1.885e-01  3.043e+27 -6.196e-29          1
stateyear=WA1964 -1.742e-01  7.674e+27 -2.270e-29          1
stateyear=WA1968 -2.523e-01  9.195e+26 -2.743e-28          1
stateyear=WA1976 -1.834e-01  9.195e+26 -1.994e-28          1
stateyear=WA1980 -1.353e-01  9.195e+26 -1.472e-28          1
stateyear=WA1988 -1.099e-01  9.195e+26 -1.195e-28          1
stateyear=WA1996 -7.450e-02  9.195e+26 -8.102e-29          1
stateyear=WA2000        NA  9.195e+26         NA         NA
stateyear=WA2004        NA  9.195e+26         NA         NA
stateyear=WI1956 -4.074e-02  9.195e+26 -4.431e-29          1
stateyear=WI1960 -8.224e-02  9.195e+26 -8.944e-29          1
stateyear=WI1968 -9.361e-02  9.195e+26 -1.018e-28          1
stateyear=WI1972  8.088e-02  1.115e+28  7.253e-30          1
stateyear=WI1976 -6.434e-03  8.956e+27 -7.185e-31          1
stateyear=WI1980  4.396e-02  1.038e+28  4.235e-30          1
stateyear=WI1984  8.478e-02  3.514e+27  2.413e-29          1
stateyear=WI1988  6.403e-02  3.789e+27  1.690e-29          1
stateyear=WI1996  9.490e-02  2.315e+28  4.099e-30          1
stateyear=WI2000  1.394e-01  1.397e+28  9.977e-30          1
stateyear=WV1956 -1.015e-01  1.893e+28 -5.361e-30          1
```

```
stateyear=WV1960 -1.127e-01  1.023e+28 -1.101e-29        1
stateyear=WV1964 -1.283e-01  1.935e+28 -6.631e-30        1
stateyear=WV1976 -2.290e-02  1.287e+28 -1.779e-30        1
stateyear=WV1980  2.347e-03  1.874e+29  1.252e-32        1
stateyear=WV1984        NA   1.248e+28        NA         NA
stateyear=WV1992 -8.422e-02  4.188e+27 -2.011e-29        1
stateyear=WY1956        NA   1.149e+28        NA         NA
stateyear=WY1960 -3.627e-02  7.190e+27 -5.045e-30        1
stateyear=WY1968 -1.280e-01  6.483e+27 -1.974e-29        1
stateyear=WY1972 -7.824e-02  6.766e+27 -1.156e-29        1
stateyear=WY1976 -4.071e-02  5.101e+27 -7.981e-30        1
stateyear=WY1980 -3.146e-02  7.674e+27 -4.100e-30        1
stateyear=WY1992        NA   9.195e+26        NA         NA
stateyear=WY1996        NA   2.475e+27        NA         NA
stateyear=WY2000        NA   3.043e+27        NA         NA

Residual standard error: 0.05572 on 991 degrees of freedom
Adjusted R-Squared: 0.6452
```

```
regress25 <- ols(dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
data=data2, method='qr', x=TRUE, subset=margin<.05)
 robcov(regress25)
```

Linear Regression Model

```
ols(formula = dv_p_t2 ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
    dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4 +
    as.factor(statesabbrev) + as.factor(t2_year) + as.factor(stateyear),
    data = data2, subset = margin < 0.05, method = "qr", x = TRUE)
```

n	Model L.R.	d.f.	R2	Sigma
764	1320	399	0.8222	0.04966

Residuals:

Min	1Q	Median	3Q	Max
-1.724e-01	-1.533e-02	3.394e-17	1.295e-02	1.591e-01

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-1.380e-01	5.667e+27	-2.435e-29	1
dwin	-8.729e-03	3.961e+13	-2.204e-16	1
dv_c_t1	-7.391e-03	7.311e+15	-1.011e-18	1
dv_c_t1_2	-6.371e+01	5.335e+17	-1.194e-16	1
dv_c_t1_3	-2.067e+03	1.637e+19	-1.263e-16	1
dv_c_t1_4	-1.618e+04	1.541e+20	-1.050e-16	1
i_dv_c_t1	4.977e-01	8.465e+15	5.880e-17	1
i_dv_c_t1_2	3.261e+01	8.504e+17	3.834e-17	1
i_dv_c_t1_3	4.544e+03	2.571e+19	1.767e-16	1
i_dv_c_t1_4	-2.725e+04	3.128e+20	-8.710e-17	1
statesabbrev=AL	-4.656e-03	1.290e+28	-3.609e-31	1
statesabbrev=AR	1.791e-01	2.017e+29	8.877e-31	1
statesabbrev=AZ	4.510e-02	4.096e+28	1.101e-30	1
statesabbrev=CA	6.880e-02	1.062e+28	6.481e-30	1
statesabbrev=CO	6.733e-02	5.667e+27	1.188e-29	1
statesabbrev=CT	8.052e-02	5.667e+27	1.421e-29	1
statesabbrev=DE	1.041e-01	6.256e+28	1.664e-30	1
statesabbrev=FL	6.428e-03	1.962e+28	3.277e-31	1
statesabbrev=GA	2.804e-02	2.842e+28	9.866e-31	1
statesabbrev=IA	1.099e-01	1.698e+28	6.472e-30	1
statesabbrev=ID	3.029e-02	5.667e+27	5.345e-30	1
statesabbrev=IL	1.309e-01	5.667e+27	2.310e-29	1
statesabbrev=IN	9.543e-02	5.667e+27	1.684e-29	1
statesabbrev=KS	1.759e-02	5.667e+27	3.105e-30	1

statesabbrev=KY	1.728e-02	4.770e+28	3.622e-31	1
statesabbrev=LA	1.648e-02	3.999e+28	4.122e-31	1
statesabbrev=MA	8.587e-02	5.667e+27	1.515e-29	1
statesabbrev=MD	1.956e-01	9.027e+28	2.167e-30	1
statesabbrev=ME	1.772e-03	5.667e+27	3.126e-31	1
statesabbrev=MI	6.872e-02	5.667e+27	1.213e-29	1
statesabbrev=MN	1.318e-01	5.667e+27	2.326e-29	1
statesabbrev=MO	1.424e-01	5.667e+27	2.512e-29	1
statesabbrev=MS	1.062e-02	2.551e+29	4.163e-32	1
statesabbrev=MT	-6.505e-02	9.114e+28	-7.137e-31	1
statesabbrev=NC	4.391e-02	5.667e+27	7.747e-30	1
statesabbrev=ND	-6.774e-02	8.152e+28	-8.310e-31	1
statesabbrev=NE	-7.132e-02	5.667e+27	-1.259e-29	1
statesabbrev=NH	7.696e-02	5.636e+28	1.366e-30	1
statesabbrev=NJ	1.058e-01	5.667e+27	1.867e-29	1
statesabbrev=NM	8.931e-02	5.096e+28	1.753e-30	1
statesabbrev=NV	1.569e-02	5.667e+27	2.768e-30	1
statesabbrev=NY	7.381e-02	5.667e+27	1.302e-29	1
statesabbrev=OH	1.537e-01	5.667e+27	2.712e-29	1
statesabbrev=OK	1.473e-01	5.667e+27	2.599e-29	1
statesabbrev=OR	1.000e-01	5.667e+27	1.765e-29	1
statesabbrev=PA	1.484e-01	5.667e+27	2.618e-29	1
statesabbrev=RI	2.258e-01	5.181e+29	4.359e-31	1
statesabbrev=SC	2.568e-02	3.131e+28	8.201e-31	1
statesabbrev=SD	8.248e-02	8.488e+28	9.718e-31	1
statesabbrev=TN	2.244e-02	5.667e+27	3.960e-30	1
statesabbrev=TX	4.116e-02	5.667e+27	7.262e-30	1
statesabbrev=UT	4.305e-02	5.667e+27	7.596e-30	1
statesabbrev=VA	2.144e-02	1.415e+28	1.515e-30	1
statesabbrev=VT	-2.951e-02	3.883e+28	-7.599e-31	1
statesabbrev=WA	9.239e-02	9.882e+27	9.349e-30	1
statesabbrev=WI	9.877e-02	5.667e+27	1.743e-29	1
statesabbrev=WV	1.357e-01	5.667e+27	2.395e-29	1
statesabbrev=WY	1.768e-02	5.667e+27	3.119e-30	1
t2_year=1956	-6.923e-02	1.680e+28	-4.121e-30	1
t2_year=1960	8.321e-02	1.534e+28	5.424e-30	1
t2_year=1964	2.991e-01	5.667e+27	5.277e-29	1
t2_year=1968	1.325e-01	5.667e+27	2.338e-29	1
t2_year=1972	-6.592e-02	2.944e+28	-2.239e-30	1
t2_year=1976	3.110e-02	5.667e+27	5.487e-30	1
t2_year=1980	-1.771e-03	1.171e+28	-1.513e-31	1
t2_year=1984	-7.595e-02	1.167e+28	-6.507e-30	1
t2_year=1988	5.630e-02	1.118e+28	5.037e-30	1
t2_year=1992	8.316e-02	5.667e+27	1.467e-29	1
t2_year=1996	1.070e-01	4.690e+27	2.282e-29	1
t2_year=2000	7.371e-02	7.830e+27	9.414e-30	1

```
t2_year=2004        6.163e-02  7.349e+27   8.386e-30        1
stateyear=AL1968    1.592e-01  1.290e+28   1.234e-29        1
stateyear=AL1980    1.119e-01  2.025e+28   5.527e-30        1
stateyear=AL1984    9.795e-02  2.227e+28   4.397e-30        1
stateyear=AL1996    1.037e-02  1.792e+28   5.784e-31        1
stateyear=AL2004          NA   2.017e+29          NA       NA
stateyear=AR1968   -2.613e-01  2.017e+29  -1.295e-30        1
stateyear=AR1976    2.000e-03  1.992e+29   1.004e-32        1
stateyear=AR1980   -1.358e-02  2.014e+29  -6.741e-32        1
stateyear=AR1984   -5.721e-02  4.360e+28  -1.312e-30        1
stateyear=AR1996          NA   4.096e+28          NA       NA
stateyear=AZ1956    4.604e-02  4.491e+28   1.025e-30        1
stateyear=AZ1976   -3.934e-02  4.116e+28  -9.558e-31        1
stateyear=AZ1980   -1.149e-02  4.364e+28  -2.634e-31        1
stateyear=AZ1984    5.025e-02  1.860e+28   2.702e-30        1
stateyear=AZ2000   -8.184e-03  1.824e+28  -4.487e-31        1
stateyear=AZ2004          NA   1.062e+28          NA       NA
stateyear=CA1956    1.144e-01  1.062e+28   1.077e-29        1
stateyear=CA1960   -1.396e-02  1.469e+28  -9.503e-31        1
stateyear=CA1964   -1.587e-01  1.215e+28  -1.307e-29        1
stateyear=CA1976   -2.074e-03  1.057e+28  -1.961e-31        1
stateyear=CA1980   -4.214e-02  1.680e+28  -2.509e-30        1
stateyear=CA1996    2.516e-02  1.534e+28   1.640e-30        1
stateyear=CA2000    4.913e-02  5.667e+27   8.669e-30        1
stateyear=CA2004          NA   5.667e+27          NA       NA
stateyear=C01956    3.553e-02  1.171e+28   3.034e-30        1
stateyear=C01960   -7.693e-02  1.167e+28  -6.591e-30        1
stateyear=C01968   -1.148e-01  1.118e+28  -1.027e-29        1
stateyear=C01976   -3.643e-02  7.830e+27  -4.653e-30        1
stateyear=C01980   -5.247e-02  7.349e+27  -7.140e-30        1
stateyear=C01984    1.317e-02  1.680e+28   7.839e-31        1
stateyear=C01988    6.535e-03  1.534e+28   4.260e-31        1
stateyear=C02000    3.405e-02  5.667e+27   6.008e-30        1
stateyear=C02004    2.522e-02  5.667e+27   4.450e-30        1
stateyear=CT1956   -6.914e-04  1.171e+28  -5.904e-32        1
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stateyear=CT1968   -7.375e-02  4.690e+27  -1.573e-29        1
stateyear=CT1976   -2.973e-02  7.830e+27  -3.797e-30        1
stateyear=CT1980   -5.898e-02  7.349e+27  -8.026e-30        1
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stateyear=CT1996    4.680e-02  6.525e+28   7.172e-31        1
stateyear=CT2000    2.398e-02  6.256e+28   3.833e-31        1
stateyear=CT2004    5.539e-02  7.448e+28   7.437e-31        1
stateyear=DE1956    6.890e-02  2.798e+28   2.463e-30        1
stateyear=DE1960   -3.329e-02  1.962e+28  -1.697e-30        1
stateyear=DE1964   -1.638e-01  1.962e+28  -8.350e-30        1
```

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stateyear=FL1964 -1.901e-01  2.842e+28  -6.690e-30          1
stateyear=FL1976  1.245e-01  2.842e+28   4.380e-30          1
stateyear=FL1980  2.248e-02  2.731e+28   8.230e-31          1
stateyear=FL1984  4.594e-02  2.620e+28   1.754e-30          1
stateyear=FL1996  4.939e-02  1.950e+28   2.532e-30          1
stateyear=FL2004        NA  1.698e+28         NA         NA
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stateyear=GA1980  2.045e-01  1.663e+28   1.230e-29          1
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stateyear=IA1964 -1.240e-01  5.667e+27  -2.188e-29          1
stateyear=IA1968 -1.420e-01  5.667e+27  -2.506e-29          1
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stateyear=IA1988  1.167e-02  7.830e+27   1.490e-30          1
stateyear=IA1996 -2.220e-02  1.680e+28  -1.322e-30          1
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stateyear=ID1984 -3.620e-02  1.171e+28  -3.091e-30          1
stateyear=ID1988 -1.140e-01  1.167e+28  -9.765e-30          1
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stateyear=IL1984  1.474e-02  5.667e+27   2.601e-30          1
stateyear=IL1988 -1.049e-01  1.171e+28  -8.957e-30          1
stateyear=IL1996  6.632e-05  1.167e+28   5.682e-33          1
stateyear=IL2000 -3.682e-02  1.118e+28  -3.295e-30          1
stateyear=IL2004 -1.608e-01  4.690e+27  -3.428e-29          1
stateyear=IN1956  3.201e-02  7.830e+27   4.088e-30          1
stateyear=IN1960 -1.267e-01  7.349e+27  -1.724e-29          1
stateyear=IN1964 -1.994e-01  1.680e+28  -1.187e-29          1
stateyear=IN1976 -4.995e-02  1.534e+28  -3.256e-30          1
stateyear=IN1980 -5.927e-02  5.667e+27  -1.046e-29          1
stateyear=IN1984  7.948e-03  5.667e+27   1.402e-30          1
stateyear=IN1988 -1.248e-01  5.667e+27  -2.203e-29          1
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stateyear=KS1960 -7.136e-02  4.262e+28 -1.674e-30          1
stateyear=KS1964 -1.214e-01  4.770e+28 -2.544e-30          1
stateyear=KS1968 -7.683e-02  4.770e+28 -1.611e-30          1
stateyear=KS1976  9.268e-02  4.770e+28  1.943e-30          1
stateyear=KS1980  1.261e-02  5.158e+28  2.445e-31          1
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stateyear=KS2004  6.432e-03  4.817e+28  1.335e-31          1
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stateyear=KY1964 -3.790e-02  4.106e+28 -9.232e-31          1
stateyear=KY1968 -7.851e-02  3.882e+28 -2.023e-30          1
stateyear=KY1976  2.693e-02  1.680e+28  1.603e-30          1
stateyear=KY1980  1.464e-01  1.534e+28  9.543e-30          1
stateyear=KY1984  6.256e-03  1.171e+28  5.342e-31          1
stateyear=KY1992  4.322e-02  4.690e+27  9.216e-30          1
stateyear=KY1996  9.062e-02  8.586e+28  1.055e-30          1
stateyear=KY2000 -4.229e-03  9.353e+28 -4.522e-32          1
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stateyear=LA1980  8.024e-02  9.027e+28  8.889e-31          1
stateyear=LA1988  1.098e-01  9.027e+28  1.217e-30          1
stateyear=LA2000        NA  8.774e+28          NA         NA
stateyear=MA1956  1.949e-02  9.514e+28  2.049e-31          1
stateyear=MA1960  3.382e-02  9.281e+28  3.643e-31          1
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stateyear=MA1996  1.118e-01  1.534e+28  7.287e-30          1
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stateyear=MD1964 -2.691e-01  5.667e+27 -4.748e-29          1
stateyear=MD1968 -1.867e-01  1.118e+28 -1.671e-29          1
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stateyear=MD1984 -1.506e-01  7.349e+27 -2.050e-29          1
stateyear=MD1988 -1.234e-01  1.680e+28 -7.345e-30          1
stateyear=MD2004        NA  1.534e+28          NA         NA
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stateyear=ME1960 -5.804e-03  5.667e+27 -1.024e-30          1
stateyear=ME1964  3.323e-02  1.171e+28  2.838e-30          1
stateyear=ME1968  5.694e-02  1.167e+28  4.878e-30          1
stateyear=ME1976  9.852e-02  1.118e+28  8.815e-30          1
stateyear=ME1988  3.462e-02  4.690e+27  7.382e-30          1
stateyear=ME1992  1.233e-01  7.830e+27  1.574e-29          1
stateyear=ME1996  1.572e-01  1.680e+28  9.359e-30          1
```

```
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stateyear=MI1968  -7.838e-02   5.667e+27  -1.383e-29          1
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stateyear=MI1980  -1.409e-02   1.167e+28  -1.207e-30          1
stateyear=MI1984  -7.511e-03   1.118e+28  -6.720e-31          1
stateyear=MI1988  -6.534e-02   4.690e+27  -1.393e-29          1
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stateyear=MI2000  -1.719e-02   1.680e+28  -1.024e-30          1
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stateyear=MO1960  -1.625e-01   9.477e+28  -1.714e-30          1
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stateyear=MO1976  -4.912e-02   1.680e+28  -2.924e-30          1
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stateyear=MT1988   1.083e-01   7.349e+27   1.474e-29          1
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stateyear=NC1976   9.033e-02   5.667e+27   1.594e-29          1
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stateyear=NC1988  -6.533e-02   1.171e+28  -5.579e-30          1
stateyear=NC1996  -3.816e-02   4.690e+27  -8.137e-30          1
stateyear=NC2000  -3.666e-02   6.449e+28  -5.684e-31          1
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stateyear=ND1996  4.887e-02  1.534e+28  3.186e-30         1
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stateyear=NE1956  1.885e-01  5.667e+27  3.326e-29         1
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stateyear=NE1976  7.759e-02  7.830e+27  9.909e-30         1
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stateyear=NJ1956  1.684e-02  5.667e+27  2.971e-30         1
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stateyear=NV1996  9.691e-02  5.667e+27  1.710e-29         1
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stateyear=OK1996 -1.097e-01  1.171e+28 -9.368e-30          1
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stateyear=OR1984  3.296e-02  3.131e+28  1.053e-30          1
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stateyear=PA1996 -5.906e-02  7.830e+27 -7.543e-30          1
stateyear=PA2000 -6.827e-02  7.349e+27 -9.289e-30          1
stateyear=PA2004 -6.885e-02  1.680e+28 -4.099e-30          1
stateyear=RI1980 -3.937e-02  1.534e+28 -2.567e-30          1
stateyear=RI1996        NA  5.667e+27        NA         NA
stateyear=SC1964 -3.519e-01  5.667e+27 -6.210e-29          1
stateyear=SC1976  1.976e-01  1.171e+28  1.688e-29          1
stateyear=SC1980  7.150e-02  1.118e+28  6.397e-30          1
stateyear=SC1984  7.747e-02  4.690e+27  1.652e-29          1
stateyear=SC1988 -6.920e-02  7.830e+27 -8.838e-30          1
stateyear=SC1996        NA  1.680e+28        NA         NA
stateyear=SD1960 -1.182e-01  1.534e+28 -7.703e-30          1
stateyear=SD1980 -4.904e-02  5.667e+27 -8.653e-30          1
stateyear=SD1984        NA  5.667e+27        NA         NA
stateyear=TN1964 -1.636e-01  1.171e+28 -1.397e-29          1
stateyear=TN1976  9.737e-02  1.167e+28  8.342e-30          1
stateyear=TN1984  3.200e-02  1.118e+28  2.863e-30          1
```

```
stateyear=TN1988 -7.351e-02  7.830e+27 -9.388e-30          1
stateyear=TN1996  1.048e-02  7.349e+27  1.427e-30          1
stateyear=TN2000  4.041e-03  1.889e+28  2.139e-31          1
stateyear=TN2004 -3.915e-02  2.019e+28 -1.939e-30          1
stateyear=TX1956  2.355e-02  1.415e+28  1.664e-30          1
stateyear=TX1960 -9.939e-02  1.415e+28 -7.024e-30          1
stateyear=TX1964 -1.580e-01  1.415e+28 -1.116e-29          1
stateyear=TX1976  3.293e-02  1.581e+28  2.083e-30          1
stateyear=TX1980  1.441e-02  1.845e+28  7.812e-31          1
stateyear=TX1988 -2.154e-02  1.689e+28 -1.275e-30          1
stateyear=TX1996 -8.629e-02  1.859e+28 -4.641e-30          1
stateyear=TX2000 -1.971e-01  2.236e+28 -8.816e-30          1
stateyear=UT1956  3.322e-02  1.651e+28  2.013e-30          1
stateyear=UT1960 -3.004e-02  1.288e+28 -2.333e-30          1
stateyear=UT1964 -1.550e-01  1.680e+28 -9.226e-30          1
stateyear=UT1976 -6.041e-02  1.534e+28 -3.938e-30          1
stateyear=UT1980 -2.160e-01  5.667e+27 -3.811e-29          1
stateyear=UT1984 -8.450e-03  2.944e+28 -2.870e-31          1
stateyear=UT1988 -1.800e-01  5.667e+27 -3.175e-29          1
stateyear=UT2000 -1.026e-01  1.534e+28 -6.690e-30          1
stateyear=UT2004 -1.372e-01  5.667e+27 -2.420e-29          1
stateyear=VA1956  1.416e-01  5.667e+27  2.499e-29          1
stateyear=VA1960  3.731e-02  1.452e+28  2.568e-30          1
stateyear=VA1964 -2.052e-01  2.045e+29 -1.003e-30          1
stateyear=VA1968 -6.096e-02  3.980e+28 -1.532e-30          1
stateyear=VA1976  7.721e-02  1.361e+28  5.673e-30          1
stateyear=VA1980 -5.587e-03  6.211e+28 -8.994e-32          1
stateyear=VA1984  9.462e-02  2.182e+28  4.337e-30          1
stateyear=VA1988 -4.442e-02  2.944e+28 -1.509e-30          1
stateyear=VA1996        NA  1.845e+28        NA         NA
stateyear=VT1960        NA  4.860e+28        NA         NA
stateyear=WA1956  8.503e-02  3.598e+28  2.364e-30          1
stateyear=WA1960 -5.119e-02  8.827e+28 -5.800e-31          1
stateyear=WA1980 -2.778e-02  2.629e+29 -1.056e-31          1
stateyear=WA1988        NA  9.052e+28        NA         NA
stateyear=WA1996 -1.499e-02  7.889e+28 -1.900e-31          1
stateyear=WA2000        NA  5.615e+28        NA         NA
stateyear=WA2004        NA  4.897e+28        NA         NA
stateyear=WI1956  1.221e-02  5.159e+29  2.366e-32          1
stateyear=WI1960 -1.057e-01  3.115e+28 -3.393e-30          1
stateyear=WI1968 -1.335e-01  8.576e+28 -1.557e-30          1
stateyear=WI1972  1.110e-01  1.260e+28  8.812e-30          1
stateyear=WI1976 -3.265e-02  3.643e+28 -8.960e-31          1
stateyear=WI1980        NA  1.816e+28        NA         NA
stateyear=WI1996        NA  1.613e+28        NA         NA
stateyear=WI2000        NA  1.119e+28        NA         NA
```

```
stateyear=WV1956           NA  1.171e+28          NA     NA
stateyear=WV1960 -9.106e-02  4.690e+27 -1.942e-29      1
stateyear=WV1984           NA  7.830e+27          NA     NA
stateyear=WV1992 -8.201e-02  1.680e+28 -4.883e-30      1
stateyear=WY1960           NA  1.167e+28          NA     NA
stateyear=WY1968 -1.102e-01  1.534e+28 -7.182e-30      1
stateyear=WY1972           NA  2.944e+28          NA     NA
stateyear=WY1976           NA  5.667e+27          NA     NA
```

Residual standard error: 0.04966 on 364 degrees of freedom
Adjusted R-Squared: 0.6273

```
#Democratic Spending Advantage stats discussed briefly in a footnote
#ICF = inflation conversion factors
data2$t2_dexp <- data2$t2_dexp/data2$t2_icf
data2$t2_rexp <- data2$t2_rexp/data2$t2_icf

data2$t2_dspendadvantage <- data2$t2_dexp - data2$t2_rexp

lm1 <- ols(t2_dspendadvantage ~ dwin + dv_c_t1 + dv_c_t1_2 + dv_c_t1_3 +
dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 + i_dv_c_t1_4, data=data2,
subset=(margin < bandwidth & t2_missingrexp==0 & t2_missingdexp==0),
method="qr", x=TRUE)
 robcov(lm1)
```

Linear Regression Model

```
ols(formula = t2_dspendadvantage ~ dwin + dv_c_t1 + dv_c_t1_2 +
    dv_c_t1_3 + dv_c_t1_4 + i_dv_c_t1 + i_dv_c_t1_2 + i_dv_c_t1_3 +
    i_dv_c_t1_4, data = data2, subset = (margin < bandwidth &
    t2_missingrexp == 0 & t2_missingdexp == 0), method = "qr",
    x = TRUE)
```

	n	Model L.R.	d.f.	R2	Sigma
	1847	925.2	9	0.394	54.41

Residuals:

Min	1Q	Median	3Q	Max
-496.3332	-26.5306	0.3094	28.4695	377.4265

Coefficients:

	Value	Std. Error	t	Pr(|t|)
Intercept	-61.25	12.06	-5.077	4.214e-07
dwin	95.28	14.93	6.382	2.200e-10
dv_c_t1	-870.85	594.97	-1.464	1.434e-01
dv_c_t1_2	-14165.76	9238.57	-1.533	1.254e-01
dv_c_t1_3	-86454.84	55133.26	-1.568	1.170e-01
dv_c_t1_4	-178816.95	111112.46	-1.609	1.077e-01
i_dv_c_t1	957.91	754.14	1.270	2.042e-01
i_dv_c_t1_2	12534.40	11820.88	1.060	2.891e-01
i_dv_c_t1_3	100601.51	70551.65	1.426	1.541e-01
i_dv_c_t1_4	143298.88	141288.80	1.014	3.106e-01

Residual standard error: 54.41 on 1837 degrees of freedom
Adjusted R-Squared: 0.3911

```
#Variables used to create the graphs
data2$rvsctls_ciupper1 <- data2$rvsctls_yhat1 + 1.96*data2$rvsctls_stderror1
data2$rvsctls_cilower1 <- data2$rvsctls_yhat1 - 1.96*data2$rvsctls_stderror1
data2$rvsctls_ciupper2 <- data2$rvsctls_yhat2 + 1.96*data2$rvsctls_stderror2
data2$rvsctls_cilower2 <- data2$rvsctls_yhat2 - 1.96*data2$rvsctls_stderror2

data2$incumbency_ciupper1 <- data2$incumbency_yhat1 +
1.96*data2$incumbency_stderror1
data2$incumbency_cilower1 <- data2$incumbency_yhat1 -
1.96*data2$incumbency_stderror1
data2$incumbency_ciupper2 <- data2$incumbency_yhat2 +
1.96*data2$incumbency_stderror2
data2$incumbency_cilower2 <- data2$incumbency_yhat2 -
1.96*data2$incumbency_stderror2

data2$count <- 1
data2$bin   <- trunc(200*(data2$dv_c_t1+.005))/200

#Graph syntax
#fig. 1
belowthresh <- na.omit(cbind(data2$dv_c_t1, data2$dv_c_t2,
data2$incumbency_yhat1, data2$incumbency_cilower1, data2$incumbency_ciupper1,
data2$count, data2$bin))

margint1 <- belowthresh[,1]
margint2 <- belowthresh[,2]
margint2.1 <- belowthresh[,3]
margint2.1.l <- belowthresh[,4]
margint2.1.u <- belowthresh[,5]
count <- belowthresh[,6]
bin    <- belowthresh[,7]


belowthresh.fig1 <- as.data.frame(cbind(margint1, margint2, margint2.1,
margint2.1.l, margint2.1.u, count, bin))

belowthresh.fig1 <-
belowthresh.fig1[ sort.list(belowthresh.fig1$margint1) ,]

abovethresh <- na.omit(cbind(data2$dv_c_t1, data2$dv_c_t2,
data2$incumbency_yhat2, data2$incumbency_cilower2, data2$incumbency_ciupper2,
data2$count, data2$bin))

margint1 <- abovethresh[,1]
margint2 <- abovethresh[,2]
margint2.2 <- abovethresh[,3]
```

```r
 margint2.2.l <- abovethresh[,4]
 margint2.2.u <- abovethresh[,5]
 count <- abovethresh[,6]
 bin   <- abovethresh[,7]

 abovethresh.fig1 <- as.data.frame(cbind(margint1, margint2, margint2.2,
margint2.2.l, margint2.2.u, count, bin))

 abovethresh.fig1 <-
abovethresh.fig1[ sort.list(abovethresh.fig1$margint1) ,]

 #use bins to determine circle size
 binmeans.b1 <- aggregate(belowthresh.fig1$margint2,
by=list(belowthresh.fig1$bin), FUN=mean)
 bincounts.b1 <- aggregate(belowthresh.fig1$count,
by=list(belowthresh.fig1$bin), FUN=sum)
 circfig1b <- as.data.frame(cbind(binmeans.b1[,1], binmeans.b1[,2],
bincounts.b1[,2]))
 names(circfig1b) <- c("bin", "mean", "count")

 binmeans.a1 <- aggregate(abovethresh.fig1$margint2,
by=list(abovethresh.fig1$bin), FUN=mean)
 bincounts.a1 <- aggregate(abovethresh.fig1$count,
by=list(abovethresh.fig1$bin), FUN=sum)
 circfig1a <- as.data.frame(cbind(binmeans.a1[,1], binmeans.a1[,2],
bincounts.a1[,2]))
 names(circfig1a) <- c("bin", "mean", "count")

 #plot
 plot(data2$dv_c_t1, data2$dv_c_t2, type='n', xlim=c(-.15,.15), ylim=c(-.
2,.2), main="Fig. 1", xlab="Democratic Congressional Margin of Victory Time
1", ylab="Democratic Congressional Margin of Victory Time 2")
 abline(v=0, h=seq(-.2,.2,.05),col = "gray60")
 points(circfig1b$bin, circfig1b$mean, col='red', cex=sqrt(circfig1b$count/
(pi*10)))
 points(circfig1a$bin, circfig1a$mean, col='blue', cex=sqrt(circfig1a$count/
(pi*10)))
 lines(belowthresh.fig1$margint1, belowthresh.fig1$margint2.1, col='red')
 lines(belowthresh.fig1$margint1, belowthresh.fig1$margint2.1.l, col='red',
lty=2)
 lines(belowthresh.fig1$margint1, belowthresh.fig1$margint2.1.u, col='red',
lty=2)
 lines(abovethresh.fig1$margint1, abovethresh.fig1$margint2.2, col='blue')
 lines(abovethresh.fig1$margint1, abovethresh.fig1$margint2.2.l, col='blue',
lty=2)
```

```
lines(abovethresh.fig1$margint1, abovethresh.fig1$margint2.2.u, col='blue',
lty=2)
```

Fig. 1

Democratic Congressional Margin of Victory Time 2 (y-axis)

Democratic Congressional Margin of Victory Time 1 (x-axis)
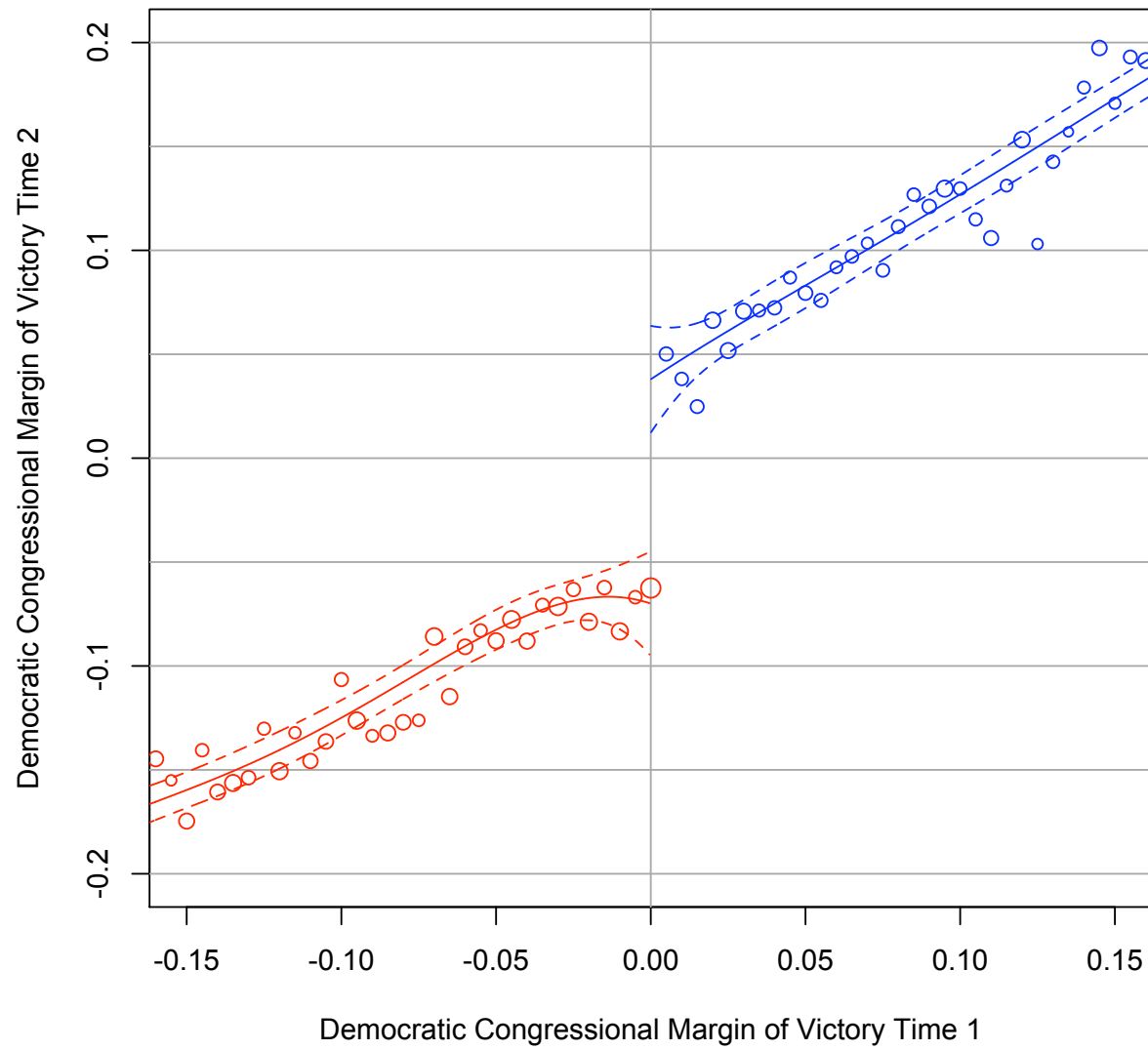
```
  #fig 2
belowthresh <- na.omit(cbind(data2$dv_c_t1, data2$dv_p_t2,
data2$rvsctls_yhat1, data2$rvsctls_cilower1, data2$rvsctls_ciupper1,
data2$count, data2$bin))

margint1 <- belowthresh[,1]
margint2 <- belowthresh[,2]
margint2.1 <- belowthresh[,3]
margint2.1.l <- belowthresh[,4]
margint2.1.u <- belowthresh[,5]
count <- belowthresh[,6]
bin    <- belowthresh[,7]

belowthresh.fig2 <- as.data.frame(cbind(margint1, margint2, margint2.1,
margint2.1.l, margint2.1.u, count, bin))

belowthresh.fig2 <-
belowthresh.fig2[ sort.list(belowthresh.fig2$margint1) ,]

abovethresh <- na.omit(cbind(data2$dv_c_t1, data2$dv_p_t2,
data2$rvsctls_yhat2, data2$rvsctls_cilower2, data2$rvsctls_ciupper2,
data2$count, data2$bin))

margint1 <- abovethresh[,1]
margint2 <- abovethresh[,2]
margint2.2 <- abovethresh[,3]
margint2.2.l <- abovethresh[,4]
margint2.2.u <- abovethresh[,5]
count <- abovethresh[,6]
bin    <- abovethresh[,7]

abovethresh.fig2 <- as.data.frame(cbind(margint1, margint2, margint2.2,
margint2.2.l, margint2.2.u, count, bin))

abovethresh.fig2 <-
abovethresh.fig2[ sort.list(abovethresh.fig2$margint1) ,]

#use bins to determine circle size
binmeans.b2 <- aggregate(belowthresh.fig2$margint2,
by=list(belowthresh.fig2$bin), FUN=mean)
bincounts.b2 <- aggregate(belowthresh.fig2$count,
by=list(belowthresh.fig2$bin), FUN=sum)
circfig2b <- as.data.frame(cbind(binmeans.b2[,1], binmeans.b2[,2],
bincounts.b2[,2]))
names(circfig2b) <- c("bin", "mean", "count")
```

```
 binmeans.a2 <- aggregate(abovethresh.fig2$margint2,
by=list(abovethresh.fig2$bin), FUN=mean)
 bincounts.a2 <- aggregate(abovethresh.fig2$count,
by=list(abovethresh.fig2$bin), FUN=sum)
 circfig2a <- as.data.frame(cbind(binmeans.a2[,1], binmeans.a2[,2],
bincounts.a2[,2]))
 names(circfig2a) <- c("bin", "mean", "count")

 #plot fig 2
 plot(data2$dv_c_t1, data2$dv_p_t2, type='n', xlim=c(-.15,.15), ylim=c(-.
2,.2), main="Fig. 2", xlab="Democratic Congressional Margin of Victory Time
1", ylab="Democratic Presidential Margin of Victory Time 2")
 abline(v=0, h=seq(-.2,.2,.05),col = "gray60")
 points(circfig2b$bin, circfig2b$mean, col='red', cex=sqrt(circfig2b$count/
(pi*10)))
 points(circfig2a$bin, circfig2a$mean, col='blue', cex=sqrt(circfig2a$count/
(pi*10)))
 lines(belowthresh.fig2$margint1, belowthresh.fig2$margint2.1, col='red')
 lines(belowthresh.fig2$margint1, belowthresh.fig2$margint2.1.l, col='red',
lty=2)
 lines(belowthresh.fig2$margint1, belowthresh.fig2$margint2.1.u, col='red',
lty=2)
 lines(abovethresh.fig2$margint1, abovethresh.fig2$margint2.2, col='blue')
 lines(abovethresh.fig2$margint1, abovethresh.fig2$margint2.2.l, col='blue',
lty=2)
 lines(abovethresh.fig2$margint1, abovethresh.fig2$margint2.2.u, col='blue',
lty=2)
```

Fig. 2