```
data_6 = read.csv("9_2_life_xt.csv", header = TRUE, sep = ",");
reg9_1 = plm(life \sim income + shock, data = data_6, index =
c("id","t"), model = "pooling")
reg9_2 = plm(life \sim income + shock, data = data_6, index =
c("id","t"), model = "fd")
summary(reg9_1,vcovHC(reg9_1, method = "arellano"))
summary(reg9_2,vcovHC(reg9_2, method = "arellano"))
結果:
Pooling Model
        Coefficient
                       variance-covariance
                                                       supplied:
Note:
                                              matrix
vcovHC(reg9_1, method = "arellano")
call:
plm(formula = life ~ income + shock, data = data_6, model =
"pooling",
   index = c("id", "t"))
Balanced Panel: n = 3020, T = 2, N = 6040
Residuals:
   Min. 1st Qu.
                 Median 3rd Qu.
                                    Max.
-2.87891 -0.61989 0.33721 0.44082 1.49910
Coefficients:
            Estimate Std. Error t-value
(Intercept) 2.5551e+00 2.2362e-02 114.2649
           3.2377e-04 5.2885e-05
                                  6.1221
income
          -5.4234e-02 2.5262e-02 -2.1468
shock
          Pr(>|t|)
(Intercept) < 2.2e-16 ***
          9.815e-10 ***
income
shock
            0.03185 *
___
Signif. codes:
0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Total Sum of Squares:
                        5478.3
Residual Sum of Squares: 5437.2
```

スクリプト:

R-Squared: 0.0075006 Adj. R-Squared: 0.0071718

F-statistic: 20.6167 on 2 and 3019 DF, p-value: 1.2791e-09

Oneway (individual) effect First-Difference Model

Note: Coefficient variance-covariance matrix supplied: vcovHC(reg9_2, method = "arellano")

call:

plm(formula = life ~ income + shock, data = data_6, model = "fd", index = c("id", "t"))

Balanced Panel: n = 3020, T = 2, N = 6040Observations used in estimation: 3020

Residuals:

Min. 1st Qu. Median 3rd Qu. Max. -4.20381 -1.15783 -0.15783 0.84217 3.88815

Coefficients:

Estimate Std. Error t-value (Intercept) 0.1578343 0.0243695 6.4767 income 0.0002299 0.0001616 1.4227 Pr(>|t|)

(Intercept) 1.091e-10 *** income 0.1549

Signif. codes:

0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Total Sum of Squares: 5186.5 Residual Sum of Squares: 5183.1

R-Squared: 0.00067026 Adj. R-Squared: 0.00033913

F-statistic: 2.024 on 1 and 3019 DF, p-value: 0.15493