

$$P_{age} = 0.21907$$

$$\alpha = 5\% = 0.05$$

$P_{age} > \alpha \Rightarrow$ коэффициент незначим! H_0 не отвергается!

$$P_{totwrk} = 1.129e - 13 = 1.129 * 10^{-13} = 0.0...01129$$

$P_{totwrk} < \alpha \Rightarrow$ влияние *totwrk* значимо

$$n = 532, k = 8, df = n - k - 1 = 523$$

~~$\log(wage)$ на age + остальное~~

$$\beta_{age} = 0.02125292 \approx 0.02 : age + 1 \Rightarrow wage + \beta_{age} * 100\% = wage + 2\%$$

$$n = 935, k = 5, df = n - k - 1 = 929$$

$F - test, k = 7, n = 706$

$$H_0 : \beta_{totwrk} = \beta_{age} = \beta_{male} = \beta_{marr} = \beta_{smsa} = \beta_{south} = \beta_{union} = 0$$

$$F_{stat} = 15.069, P < 2.2e - 16 = 2.2 * 10^{-16}$$

$P < 0.05 \Rightarrow H_0$ отвергаем, регрессия значима

$$df1 = k = 7, df2 = n - k - 1 = 698$$

$$F_{cr} = 2.022681$$

$F_{stat} > F_{cr} \Rightarrow$ регрессия значима!

$$\widehat{sleep} = \hat{\beta}_0 + \hat{\beta}_{totwrk} * 2300 + \hat{\beta}_{age} * 38 + \hat{\beta}_{smsa} * 1 + \hat{\beta}_{south} * 0 = 3186.11 \text{ (мин\нед)}$$

$\log(output)$ на $\log(capital), \log(labour)$

$$\log \hat{output} = \hat{\beta}_0 + \hat{\beta}_1 * \log(capital) + \hat{\beta}_2 * \log(labour)$$