

```
> dat<-read.spss(file = "E:\\R\\Data\\EVS_Var_CompUniOff.sav",use.value.labels= T, to.data.frame = T)
```

Warning messages:

```
1: In read.spss(file = "E:\\R\\Data\\EVS_Var_CompUniOff.sav", use.value.labels = T, :  
  E:\\R\\Data\\EVS_Var_CompUniOff.sav: Unrecognized record type 7, subtype 8 encountered in system file  
2: In read.spss(file = "E:\\R\\Data\\EVS_Var_CompUniOff.sav", use.value.labels = T, :  
  E:\\R\\Data\\EVS_Var_CompUniOff.sav: Unrecognized record type 7, subtype 10 encountered in system file  
3: In read.spss(file = "E:\\R\\Data\\EVS_Var_CompUniOff.sav", use.value.labels = T, :  
  E:\\R\\Data\\EVS_Var_CompUniOff.sav: Unrecognized record type 7, subtype 18 encountered in system file  
4: In `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels) else paste0(labels, :  
  duplicated levels in factors are deprecated  
5: In `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels) else paste0(labels, :  
  duplicated levels in factors are deprecated  
6: In `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels) else paste0(labels, :  
  duplicated levels in factors are deprecated
```

```
> #tell R these variables are ordered
```

```
> dat$eduPar<-as.ordered(dat$eduPar)
```

```
> dat$eduRes<-(as.ordered(dat$eduRes))
```

```
> dat$egp11Par<-(as.ordered(dat$egp11Par))
```

```
> dat$iscd3Par<-(as.ordered(dat$iscd3Par))
```

Warning message:

```
In `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels) else paste0(labels, :  
  duplicated levels in factors are deprecated
```

```
> dat$iscd3Res<-(as.ordered(dat$iscd3Res))
```

Warning message:

```
In `levels<-`(`*tmp*`, value = if (nl == nL) as.character(labels) else paste0(labels, :  
  duplicated levels in factors are deprecated
```

```
> #Factors
```

```
> dat$NationalExamn<-(as.factor(dat$NationalExamn))
```

```
> dat$cohort47<-as.factor(dat$cohort47)
```

```
> dat$cohort38<-as.factor(dat$cohort38)
```

```
> dat$cohort55<-as.factor(dat$cohort55)
```

```
cm1logit<-clmm( eduRes2 ~ eduPar2 + SIOPSPar+egp2+agea+gender+cohort38 +cohort47+cohort55 + (1|s003), da  
ta=dat, weights = s017, Hess =T, model = T)
```

Warning messages:

```
1: In update.uC(rho) :  
  iteration limit reached when updating the random effects  
  at iteration 4  
2: In update.uC(rho) :  
  step factor reduced below minimum when updating the random effects  
  at iteration 118  
3: In update.uC(rho) :  
  step factor reduced below minimum when updating the random effects  
  at iteration 142  
4: In update.uC(rho) :  
  step factor reduced below minimum when updating the random effects  
  at iteration 915  
5: In update.uC(rho) :  
  iteration limit reached when updating the random effects  
  at iteration 1250  
6: In update.uC(rho) :  
  step factor reduced below minimum when updating the random effects  
  at iteration 1383
```

7: In update.uC(rho) :
 iteration limit reached when updating the random effects
 at iteration 1461
 8: In update.uC(rho) :
 step factor reduced below minimum when updating the random effects
 at iteration 1538

> summary(cm1logt)

Error in summary(cm1logt) : object 'cm1logt' not found

> summary(cm1logit)

Cumulative Link Mixed Model fitted with the Laplace approximation

formula: eduRes2 ~ eduPar2 + SIOPSPar + egp2 + agea + gender + cohort38 + cohort47 + cohort55 + (1 | s003)
 data: dat

link	threshold	nobs	logLik	AIC	niter	max.grad	cond.H
logit	flexible	20269.81	-30933.12	61920.23	5957(23798)	9.62e-02	5.7e+05

Random effects:

Groups	Name	Variance	Std.Dev.
s003	(Intercept)	0.435	0.6596

Number of groups: s003 31

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)
eduPar2 II, lower secondary	0.740572	0.040151	18.445	< 2e-16 ***
eduPar2 III, upper secondary	0.924604	0.053582	17.256	< 2e-16 ***
eduPar2 IV, upper secondary, pre-tertiary	1.177141	0.047835	24.609	< 2e-16 ***
eduPar2V, lower tertiary education, BA level	1.641680	0.068336	24.024	< 2e-16 ***
eduPar2V1, higher tertiary education, >= MA level	2.230778	0.088504	25.205	< 2e-16 ***
SIOPSPar	0.013710	0.001808	7.583	3.38e-14 ***
egp2I :Higher Controllers	0.558586	0.078500	7.116	1.11e-12 ***
egp2II :Lower Controllers	0.508291	0.063502	8.004	1.20e-15 ***
egp2IIIa:Routine Nonmanual	0.495482	0.071858	6.895	5.38e-12 ***
egp2IIIb:Lower Sales-Service	0.398054	0.078719	5.057	4.27e-07 ***
egp2IVa:Selfempl with empl	0.615464	0.073512	8.372	< 2e-16 ***
egp2IVb:Selfempl no empl	0.221335	0.071668	3.088	0.002013 **
egp2V :Manual Supervisors	0.141072	0.075815	1.861	0.062779 .
egp2VI :Skilled Worker	-0.056081	0.042966	-1.305	0.191810
egp2VIIb:Farm Labor	-0.259625	0.053603	-4.844	1.28e-06 ***
egp2IVc:Selfempl Farmer	-0.195554	0.056923	-3.435	0.000592 ***
agea	-0.028354	0.004941	-5.739	9.53e-09 ***
genderfemale	-0.032169	0.025447	-1.264	0.206168
cohort381	-0.163867	0.134565	-1.218	0.223320
cohort471	-0.069366	0.095155	-0.729	0.466015
cohort551	0.073386	0.059178	1.240	0.214938

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Threshold coefficients:

	Estimate	Std. Error	z value
I, less than lower secondary II, lower secondary	-2.7709	0.3272	-8.468
II, lower secondary III, upper secondary	-1.2626	0.3265	-3.867
III, upper secondary IV, upper secondary, pre-tertiary	-0.3304	0.3264	-1.012
IV, upper secondary, pre-tertiary V, lower tertiary education, BA level	1.2572	0.3265	3.850
V, lower tertiary education, BA level V1, higher tertiary education, >= MA level	2.6793	0.3271	8.190

(101 observations deleted due to missingness)