```
DATASET ACTIVATE DataSet1.
DESCRIPTIVES VARIABLES=pain age STAI trait pain cat cortisol serum mindfulness
/STATISTICS=MEAN STDDEV VARIANCE RANGE MIN MAX KURTOSIS SKEWNESS.
FREQUENCIES VARIABLES=Sex new
/ORDER=ANALYSIS.
EXAMINE VARIABLES=pain age STAI trait pain cat cortisol serum mindfulness Sex new
 /PLOT BOXPLOT HISTOGRAM NPPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.
* Chart Builder.
GGRAPH
/GRAPHDATASET NAME="graphdataset" VARIABLES=age pain MISSING=LISTWISE
REPORTMISSING=NO
/GRAPHSPEC SOURCE=INLINE
/FITLINE TOTAL=YES.
BEGIN GPL
SOURCE: s=userSource(id("graphdataset"))
 DATA: age=col(source(s), name("age"))
DATA: pain=col(source(s), name("pain"))
 GUIDE: axis(dim(1), label("age"))
 GUIDE: axis(dim(2), label("pain"))
 GUIDE: text.title(label("Simple Scatter with Fit Line of pain by age"))
ELEMENT: point(position(age*pain))
END GPL.
* Chart Builder.
GGRAPH
/GRAPHDATASET NAME="graphdataset" VARIABLES=STAI_trait pain MISSING=LISTWISE
REPORTMISSING=NO
/GRAPHSPEC SOURCE=INLINE
/FITLINE TOTAL=YES.
BEGIN GPL
 SOURCE: s=userSource(id("graphdataset"))
 DATA: STAI_trait=col(source(s), name("STAI_trait"))
 DATA: pain=col(source(s), name("pain"))
 GUIDE: axis(dim(1), label("STAI trait"))
 GUIDE: axis(dim(2), label("pain"))
 GUIDE: text.title(label("Simple Scatter with Fit Line of pain by STAI trait"))
 ELEMENT: point(position(STAI trait*pain))
```

END GPL.

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT pain
/METHOD=ENTER age Sex_new
/METHOD=ENTER STAI trait pain cat cortisol serum mindfulness
/SCATTERPLOT=(*ZRESID, *ZPRED)
/RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID)
/SAVE PRED COOK RESID.
* Chart Builder.
GGRAPH
/GRAPHDATASET NAME="graphdataset" VARIABLES=ID COO 2 MISSING=LISTWISE
REPORTMISSING=NO
/GRAPHSPEC SOURCE=INLINE
/FITLINE TOTAL=YES.
BEGIN GPL
SOURCE: s=userSource(id("graphdataset"))
DATA: ID=col(source(s), name("ID"), unit.category())
DATA: COO 2=col(source(s), name("COO 2"))
GUIDE: axis(dim(1), label("ID"))
GUIDE: axis(dim(2), label("Cook's Distance"))
GUIDE: text.title(label("Simple Scatter with Fit Line of Cook's Distance by ID"))
SCALE: linear(dim(2), include(0))
ELEMENT: point(position(ID*COO 2))
END GPL.
DESCRIPTIVES VARIABLES=RES 2
/STATISTICS=MEAN STDDEV VARIANCE RANGE MIN MAX KURTOSIS SKEWNESS.
EXAMINE VARIABLES=RES 2
/PLOT BOXPLOT HISTOGRAM NPPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.
* Curve Estimation.
TSET NEWVAR=NONE.
CURVEFIT
/VARIABLES=pain WITH pain cat
/CONSTANT
/MODEL=LINEAR QUADRATIC CUBIC
/PLOT FIT.
```

```
COMPUTE res sq=RES 2 * RES 2.
EXECUTE.
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL CHANGE
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT res_sq
/METHOD=ENTER age Sex new
/METHOD=ENTER STAI trait pain cat cortisol serum mindfulness
/SCATTERPLOT=(*ZRESID ,*ZPRED)
/RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID).
* Chart Builder.
GGRAPH
/GRAPHDATASET NAME="graphdataset" VARIABLES=ZPR 1 pain MISSING=LISTWISE
REPORTMISSING=NO
/GRAPHSPEC SOURCE=INLINE
/FITLINE TOTAL=NO.
BEGIN GPL
SOURCE: s=userSource(id("graphdataset"))
DATA: ZPR_1=col(source(s), name("ZPR_1"))
DATA: pain=col(source(s), name("pain"))
GUIDE: axis(dim(1), label("Standardized Predicted Value"))
 GUIDE: axis(dim(2), label("pain"))
 GUIDE: text.title(label("Simple Scatter of pain by Standardized Predicted Value"))
ELEMENT: point(position(ZPR 1*pain))
END GPL.
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA SELECTION
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT pain
/METHOD=ENTER age Sex new
/METHOD=ENTER STAI trait pain cat cortisol serum mindfulness
```