

Phase 1 output

Phase 1 lists the test specifications and the assignment of items to the main test and the variants.

```
>ITEMS INUMBERS=(1(1)50), INAME=(I26(1)I75);
```

```
TEST SPECIFICATIONS
=====
```

```
>TESTM TNAME=MAINTEST,
INAMES=(I26,I27,I28,I29,I31,I33,I34,
I35,I36,I38,I39,I47,I48,I49,I50,I54,I60,I64,I68,I72);
```

```
TEST NUMBER: 1 TEST NAME: MAINTEST
NUMBER OF ITEMS: 20
```

ITEM NUMBER	ITEM NAME	ITEM NUMBER	ITEM NAME	ITEM NUMBER	ITEM NAME	ITEM NUMBER	ITEM NAME
1	I26	9	I34	23	I48	43	I68
2	I27	10	I35	24	I49	47	I72
3	I28	11	I36	25	I50		
4	I29	13	I38	29	I54		
6	I31	14	I39	35	I60		
8	I33	22	I47	39	I64		

```
>TESTV TNAME=VARIANT,
INAMES=(I53,I59,I69,I73);
```

```
TEST NUMBER: 2 TEST NAME: VARIANT
NUMBER OF ITEMS: 4
```

ITEM NUMBER	ITEM NAME	ITEM NUMBER	ITEM NAME	ITEM NUMBER	ITEM NAME	ITEM NUMBER	ITEM NAME
28	I53	34	I59	44	I69	48	I73

Responses of 660 examinees are read from the data records, but only 200 randomly sampled cases are included in the Phase 1 and Phase 2 analysis. The classical item statistics are shown separately for main and variant items. The test scores for the item-test correlations are based on the test scores from the main test items only.

```
660 OBSERVATIONS READ FROM FILE: EXAMPL07.DAT
660 OBSERVATIONS WRITTEN TO FILE: MF.DAT
```

```
REPORT ON SUBJECT SAMPLING:
LEVEL OF SAMPLING = 0.3030
660 SUBJECTS READ FROM FILE: MF.DAT
200 SUBJECTS WRITTEN TO FILE: CF.DAT
```

```
ITEM STATISTICS FOR SUBTEST MAINTEST
```

ITEM	NAME	#TRIED	#RIGHT	PCT	ITEM*TEST CORRELATION		
					LOGIT/1.7	PEARSON	BISERIAL
1	I26	200.0	134.0	67.0	-0.42	0.188	0.244
2	I27	200.0	102.0	51.0	-0.02	0.421	0.527
3	I28	200.0	78.0	39.0	0.26	0.294	0.374
4	I29	200.0	147.0	73.5	-0.60	0.444	0.598

```
...
```

ITEM STATISTICS FOR SUBTEST VARIANT

ITEM	NAME	#TRIED	#RIGHT	PCT	ITEM*TEST CORRELATION		
					LOGIT/1.7	PEARSON	BISERIAL
1	I53	200.0	139.0	69.5	-0.48	0.454	0.596
2	I59	200.0	135.0	67.5	-0.43	0.456	0.594
3	I69	200.0	53.0	26.5	0.60	0.379	0.510
4	I73	200.0	50.0	25.0	0.65	0.069	0.094

Phase 2 output

Calibration of the main test items is computed as in the other examples. Without altering the item parameter estimates of those items, parameter estimates for the variants are computed with respect to the latent dimension determined by the main items.

SUBTEST MAINTEST; ITEM PARAMETERS AFTER CYCLE 6

ITEM	INTERCEPT S.E.	SLOPE S.E.	THRESHOLD S.E.	LOADING S.E.	ASYMPTOTE S.E.	CHISQ (PROB)	DF
I26	0.451 0.648*	0.360 0.088*	-1.254 1.775*	0.339 0.083*	0.000 0.000*	8.6 (0.3784)	8.0
I27	0.028 0.691*	0.753 0.152*	-0.037 0.918*	0.602 0.121*	0.000 0.000*	3.2 (0.7857)	6.0
(Similar output omitted)							
I72	-0.018 0.684*	0.726 0.149*	0.025 0.942*	0.587 0.121*	0.000 0.000*	13.6 (0.0347)	6.0

* STANDARD ERROR

LARGEST CHANGE = 0.002542 106.4 131.0
(0.9439)

PARAMETER	MEAN	STN DEV
SLOPE	0.616	0.220
LOG(SLOPE)	-0.548	0.368
THRESHOLD	0.143	1.256

CALIBRATION OF VARIANT ITEMS
VARIANT

-2 LOG LIKELIHOOD = 4545.542

ITEM	INTERCEPT S.E.	SLOPE S.E.	THRESHOLD S.E.	LOADING S.E.	ASYMPTOTE S.E.	CHISQ (PROB)	DF
I53	0.587 0.104*	0.613 0.111*	-0.957 0.202*	0.523 0.094*	0.000 0.000*	0.0 (1.0000)	0.0
I59	0.519 0.101*	0.603 0.109*	-0.860 0.195*	0.517 0.093*	0.000 0.000*	0.0 (1.0000)	0.0
I69	-0.702 0.107*	0.549 0.109*	1.280 0.263*	0.481 0.095*	0.000 0.000*	0.0 (1.0000)	0.0
I73	-0.668 0.098*	0.231 0.064*	2.886 0.857*	0.225 0.062*	0.000 0.000*	0.0 (1.0000)	0.0

Phase 3 output

In Phase 3, scores for all 660 examinees are computed from the main test item response and saved to an external file. Printing of the scores is suppressed, except for the first three cases. The latent distribution estimated from all 660 cases is computed and printed. Scores are based on the unrescaled Phase 2 parameters, which are then saved to an external file.

>SCORE METHOD=2, NOPRINT;

SCORES WILL NOT BE COMPUTED FOR VARIANT ITEM SUBTESTS
PARAMETERS FOR SCORING, RESCALING, AND TEST AND ITEM INFORMATION

METHOD OF SCORING SUBJECTS: EXPECTATION A POSTERIORI
(EAP; BAYES ESTIMATION)
TYPE OF PRIOR: NORMAL
SCORES WRITTEN TO FILE EXAMPL07.SCO

GROUP WEIGHT	SUBJECT IDENTIFICATION TEST	TRIED	RIGHT	PERCENT	ABILITY	S.E.	MARGINAL PROB
1	0102111900						
1.00	MAINTEST	20	8	40.00	-0.4065	0.3645	0.000000
1	0104112200						
1.00	MAINTEST	20	8	40.00	-0.4091	0.3641	0.000000
1	0105121900						
1.00	MAINTEST	20	3	15.00	-1.2316	0.4637	0.000000

SUMMARY STATISTICS FOR SCORE ESTIMATES

CORRELATIONS AMONG TEST SCORES

	MAINTEST
MAINTEST	1.0000

MEANS, STANDARD DEVIATIONS, AND VARIANCES OF SCORE ESTIMATES

TEST:	MAINTEST
MEAN:	0.0915
S.D.:	0.8940
VARIANCE:	0.7992

ROOT-MEAN-SQUARE POSTERIOR STANDARD DEVIATIONS

TEST:	MAINTEST
RMS:	0.4493
VARIANCE:	0.2019

EMPIRICAL RELIABILITY: 0.7984

MARGINAL LATENT DISTRIBUTION(S)

MARGINAL LATENT DISTRIBUTION FOR TEST MAINTEST

MEAN	=	0.092
S.D.	=	0.974