

Syntax

```
options
    maxthreads=8;
startvalues
    sets=1000 iterations=250 seed=0 tolerance=1e-005;
missing
    includeall;
output
    parameters=effect betaopts=wl standarderrors estimatedvalues=regression;
algorithm
    emiterations=10000 nriterations=0;
bayes
    categorical=10 variances=10 latent=10 poisson=10;
quadrature
    nodes=10;
variables
    dependent  discr1 continuous, discr2 continuous, discr3 continuous, discr4
continuous, discr5 continuous, c50;
    groupid sid;
    independent trial2, gender, condpr1, fsm, schsize, schfsm, schcond;
    latent i continuous, s continuous, uC continuous group, uy continuous
group, C nominal 2;
equations
    uC;
    uy;
    uC <-> uy;
    i|C;
    s|C;
    i <-> s|C;
    discr1 <- (1) i + (0) s;
    discr2 <- (1) i + (1) s;
    discr3 <- (1) i + (2) s;
    discr4 <- (1) i + (3) s;
    discr5 <- (1) i + (4) s;
    discr1|C;
    discr2|C;
    discr3|C;
    discr4|C;
    discr5|C;
    C <- 1 + condpr1 + fsm + schsize + schfsm + schcond + (1) uC;
    i <- 1|C + trial2|C + gender|C + (1) uy;
    s <- 1|C + trial2|C + gender|C;
    c50 <- (w~wei) C;
    w = {1 0 0 1};
```

Std.Output

Standard Output for Latent GOLD 5.1 and 6.0

* Statistics *

Log-likelihood = -12135.8595

Log-prior = -85.1708
 Log-posterior = -12221.0303
 Number of parameters = 37
 Activated constraints= 0
 Number of groups = 77.00
 Number of cases = 3084.00
 BIC (Log-lik.) = 24568.9764
 AIC (Log-lik.) = 24345.7190
 AIC3 (Log-lik.) = 24382.7190
 CAIC (Log-lik.) = 24605.9764
 SABIC (Log-lik.) = 24451.4123
 BIC(LL,Ngrougs) = 24432.4398
 CAIC(LL,Ngrougs) = 24469.4398
 SABIC(LLL,Ngrougs) = 24315.8006

CH = 6.1391

Class. log-lik. = -12420.6999
 Entropy = 284.8404
 CLC = 24841.3999
 AWE = 25546.9146
 ICL-BIC = 25138.6572

		uC	uy	i	s	C
Class. errors	=	0.0000	0.0000	0.0000	0.0000	0.0361
Average entropy	=	0.0000	0.0000	0.0000	0.0000	0.0924
Reduction errors	=	1.0000	1.0000	1.0000	1.0000	0.8736
Entropy R-squared	=	1.0000	1.0000	1.0000	1.0000	0.8457
Standard R-squared	=	1.0000	0.8164	0.7520	0.3593	0.8676

Classification Table for C

		Modal		
True		1	2	Total
	1	1942.4	37.8	1980.2
	2	73.6	1030.2	1103.8
	Total	2016.0	1068.0	3084.0

Classification Table for C

		Proportional		
True		1	2	Total
	1	1896.8	83.4	1980.2
	2	83.4	1020.5	1103.8
	Total	1980.2	1103.8	3084.0

		uC	uy	i	s	C
Based on Covariates						
Class. errors	=	0.0000	0.0000	0.0000	0.0000	0.2486
Entropy	=	0.0000	0.0000	0.0000	0.0000	0.5287
Reduction errors	=	1.0000	1.0000	1.0000	1.0000	0.1303
Entropy R-squared	=	1.0000	1.0000	1.0000	1.0000	0.1166
Standard R-squared	=	0.0000	0.0000	0.3045	0.1690	0.1443

Classification Table Based on Covariates for C

		Modal		
True		1	2	Total

1	2081.2	121.0	2202.3
2	645.8	236.0	881.7
Total	2727.0	357.0	3084.0

Seed random numbers = 482473

* Parameters estimates *

Model for i

index	inte	term	z-value	p	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	10	i <- 1 C(1)	39.5844	1.1e-342						1.2422		0.0314
2,1	11	i <- 1 C(2)	35.7976	1.2e-280	2194.6668	2	2.7e-477	303.9492	1	2.3543	4.5e-68	0.0658
1,1	12	i <- trial2 C(1)	5.6869	1.3e-8						0.2720		0.0478
2,1	13	i <- trial2 C(2)	-8.8555	8.3e-19	128.0044	2	1.6e-28	127.8065	1	-0.6332	1.2e-29	0.0715
1,1	14	i <- gender C(1)	8.8575	8.2e-19						0.2117		0.0239
2,1	15	i <- gender C(2)	7.4318	1.1e-13	132.3566	2	1.8e-29	8.3464	1	0.3710	0.0039	0.0499
1,1	-	i <- uy								1.0000		-----
-----	-----											

Model for s

index	inte	term	z-value	p	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	16	s <- 1 C(1)	5.4911	4.0e-8						0.0366		0.0067
2,1	17	s <- 1 C(2)	-1.4519	0.15	30.8110	2	2.0e-7	9.5863	1	-0.0272	0.0020	0.0187
1,1	18	s <- trial2 C(1)	-2.9389	0.0033						-0.0246		0.0084
2,1	19	s <- trial2 C(2)	0.1459	0.88	8.6622	2	0.013	1.7568	1	0.0026	0.18	0.0179
1,1	20	s <- gender C(1)	3.9303	8.5e-5						0.0321		0.0082
2,1	21	s <- gender C(2)	2.6812	0.0074	23.9283	2	6.4e-6	0.3005	1	0.0420	0.58	0.0157

Model for C

index	inte	term	z-value	p	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	4	C(1) <- 1	11.5059	1.2e-30						2.1701		0.1886
-,-	-	C(2) <- 1	-11.5059	1.2e-30	132.3864	1	1.2e-30			-2.1701		0.1886
1,1	5	C(1) <- condpr1	-15.2895	9.0e-53						-0.4770		0.0312
-,-	-	C(2) <- condpr1								0.4770		0.0312

15.2895	9.0e-53	233.7680	1	9.0e-53		
1,1	6	C(1) <- fsm			-0.2447	0.0895
-2.7334	0.0063					
-, -	-	C(2) <- fsm			0.2447	0.0895
2.7334	0.0063	7.4713	1	0.0063		
1,1	7	C(1) <- schsize			0.0021	0.0003
7.6711	1.7e-14					
-, -	-	C(2) <- schsize			-0.0021	0.0003
-7.6711	1.7e-14	58.8456	1	1.7e-14		
1,1	8	C(1) <- schfsm			0.0006	0.0033
0.1870	0.85					
-, -	-	C(2) <- schfsm			-0.0006	0.0033
-0.1870	0.85	0.0350	1	0.85		
1,1	9	C(1) <- schcond			-0.9014	0.0926
-9.7355	2.1e-22					
-, -	-	C(2) <- schcond			0.9014	0.0926
9.7355	2.1e-22	94.7795	1	2.1e-22		
1,1	-	C(1) <- uC			1.0000	-----
-----	-----					
-, -	-	C(2) <- uC			-1.0000	-----

Model for disr1

index	inte	term						coeff	s.e.
	z-value	p	Wald(0)	df	p	Wald(=)	df	p	
1,1	-	disr1 <- i						1.0000	-----
	-----	-----							
1,1	-	disr1 <- s						0.0000	-----
	-----	-----							

Model for disr2

index	inte	term					coeff	s.e.
z-value		p	Wald(0)	df	p	Wald(=)	df	p
1,1	-	disr2 <- i					1.0000	-----

1,1	-	disr2 <- s					1.0000	-----

Model for disr3

index	inte	term					coeff	s.e.
	z-value	p	Wald(0)	df	p	Wald(=)	df	p
1,1	-	disr3 <- i				1.0000		-----
	-----	-----						
1,1	-	disr3 <- s				2.0000		-----
	-----	-----						

Model for disr4

index	inte	term					coeff	s.e.
	z-value	p	Wald(0)	df	p	Wald(=)	df	p
1,1	-	disr4 <- i				1.0000		-----
	-----	-----						
1,1	-	disr4 <- s				3.0000		-----
	-----	-----						

Model for disr5

index	inte	term	z-value	p	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	-	disr5 <- i	-----	-----						1.0000		-----
1,1	-	disr5 <- s	-----	-----						4.0000		-----

Model for c50

index	inte	term	z-value	p	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	-	c50(1) <- C(1)	-----	-----						1.0000		-----
1,2	-	c50(2) <- C(1)	-----	-----						0.0000		-----
1,3	-	c50(1) <- C(2)	-----	-----						0.0000		-----
1,4	-	c50(2) <- C(2)	-----	-----						1.0000		-----

Variances

index	inte	term	z-value	p	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	1	uC (chol)	16.3287	6.2e-60	266.6268	1	6.2e-60			2.1887		0.1340
1,1	2	uy (chol)	7.8697	3.6e-15	61.9323	1	3.6e-15			0.1394		0.0177
1,1	27	i C(1)	16.8452	1.1e-63						0.1601		0.0095
2,1	35	i C(2)	11.2734	1.8e-29	409.0120	2	1.5e-89	30.3026	1	0.3286		0.0291
1,1	29	s C(1)	6.0879	1.1e-9						0.0070		0.0012
2,1	37	s C(2)	2.7403	0.0062	47.6039	2	4.6e-11	0.1490	1	0.0083		0.0030
1,1	22	disr1 C(1)	17.1550	5.8e-66						0.1374		0.0080
2,1	30	disr1 C(2)	15.6716	2.4e-55	550.6164	2	2.7e-120	106.8920	1	0.4421		0.0282
1,1	23	disr2 C(1)	21.3111	9.0e-101						0.1469		0.0069
2,1	31	disr2 C(2)	16.3599	3.7e-60	748.6321	2	2.7e-163	66.8886	1	0.3172		0.0194
1,1	24	disr3 C(1)	20.1944	1.1e-90						0.1373		0.0068
2,1	32	disr3 C(2)	17.7448	1.9e-70	744.3663	2	2.3e-162	148.6629	1	0.4791		0.0270
1,1	25	disr4 C(1)	20.3757	2.7e-92						0.2018		0.0099
2,1	33	disr4 C(2)	14.8251	1.0e-49	703.8664	2	1.4e-153	23.5442	1	0.3220		0.0217
1,1	26	disr5 C(1)	15.0661	2.7e-51						0.2171		0.0144
2,1	34	disr5 C(2)								0.4292		0.0335

12.8141	1.4e-37	483.4635	2	1.0e-105	29.6958	1	5.1e-8
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Covariances / Associations

index	inte	term	Wald(0)	df	p	Wald(=)	df	coeff	p	s.e.
1,1	3	uC <-> uy (chol)						0.0857		0.0247
			3.4675	0.00053	12.0233	1	0.00053			
1,1	28	i <-> s C(1)						-0.0005		0.0027
			-0.1901	0.85						
2,1	36	i <-> s C(2)						0.0005		0.0078
			0.0616	0.95	0.0405	2	0.98	0.0148	1	0.90

Variances / Covariances continuous latent

term	coeff	s.e.
uC	4.7903	0.5867
uC <-> uy	0.1876	0.0558
uy	0.0268	0.0066
i C(1)	0.1601	0.0095
i <-> s C(1)	-0.0005	0.0027
s C(1)	0.0070	0.0012
i C(2)	0.3286	0.0291
i <-> s C(2)	0.0005	0.0078
s C(2)	0.0083	0.0030

* Posthoc Tests *

Model for i

i <- 1 C					
	Wald	df	p		
C 1 2	303.9492	1	4.5e-68		
i <- trial2 C					
	Wald	df	p		
C 1 2	127.8065	1	1.2e-29		
i <- gender C					
	Wald	df	p		
C 1 2	8.3464	1	0.0039		

Model for s

s <- 1 | C

				Wald	df	p
C	1	2		9.5863	1	0.0020

s <- trial2 | C

				Wald	df	p
C	1	2		1.7568	1	0.18

s <- gender | C

				Wald	df	p
C	1	2		0.3005	1	0.58

Model for C

C <- 1

				Wald	df	p
C	1	2		132.3864	1	1.2e-30

C <- condpr1

				Wald	df	p
C	1	2		233.7680	1	9.0e-53

C <- fsm

				Wald	df	p
C	1	2		7.4713	1	0.0063

C <- schsize

				Wald	df	p
C	1	2		58.8456	1	1.7e-14

C <- schfsm

				Wald	df	p
C	1	2		0.0350	1	0.85

C <- schcond

				Wald	df	p
C	1	2		94.7795	1	2.1e-22

C <- uC

				Wald	df	p
C	1	2		0.0000	0	1.#QNAN

Model for c50

c50 <- C

				Wald	df	p
C	1	2		0.0000	0	1.#QNAN

Variances

i | C

				Wald	df	p
C	1	2		30.3026	1	3.7e-8

s | C

				Wald	df	p
	C	1	2	0.1490	1	0.70
disr1		C				
				Wald	df	p
	C	1	2	106.8920	1	4.7e-25
disr2		C				
				Wald	df	p
	C	1	2	66.8886	1	2.9e-16
disr3		C				
				Wald	df	p
	C	1	2	148.6629	1	3.4e-34
disr4		C				
				Wald	df	p
	C	1	2	23.5442	1	1.2e-6
disr5		C				
				Wald	df	p
	C	1	2	29.6958	1	5.1e-8

Covariances / Associations

is		C				
				Wald	df	p
	C	1	2	0.0148	1	0.90

* Estimated values for dependent given joint classes + overall + observed *

2	2	1	1.7592
2	2	2	2.0093
2	2	overall	1.8307
2	2	observed	1.8847
2	1	1	1.5474
2	1	2	1.6383
2	1	overall	1.5734
2	1	observed	1.5332
1	2	1	1.4871
1	2	2	2.6425
1	2	overall	1.8175
1	2	observed	1.7925
1	1	1	1.2754
1	1	2	2.2715
1	1	overall	1.5602
1	1	observed	1.3921
2	2	1	1.8033
2	2	2	2.0267
2	2	overall	1.8671
2	2	observed	1.9336
2	1	1	1.5595

2	1	2	1.6137
2	1	overall	1.5750
2	1	observed	1.5922
1	2	1	1.5558
1	2	2	2.6573
1	2	overall	1.8707
1	2	observed	1.8155
1	1	1	1.3120
1	1	2	2.2443
1	1	overall	1.5786
1	1	observed	1.4326

2	2	1	1.8474
2	2	2	2.0441
2	2	overall	1.9036
2	2	observed	1.9354
2	1	1	1.5715
2	1	2	1.5891
2	1	overall	1.5765
2	1	observed	1.5400
1	2	1	1.6245
1	2	2	2.6720
1	2	overall	1.9240
1	2	observed	1.8116
1	1	1	1.3487
1	1	2	2.2171
1	1	overall	1.5969
1	1	observed	1.4461

2	2	1	1.8915
2	2	2	2.0614
2	2	overall	1.9400
2	2	observed	1.9796
2	1	1	1.5835
2	1	2	1.5645
2	1	overall	1.5781
2	1	observed	1.5067
1	2	1	1.6932
1	2	2	2.6868
1	2	overall	1.9773
1	2	observed	1.8827
1	1	1	1.3853
1	1	2	2.1899
1	1	overall	1.6153
1	1	observed	1.4938

2	2	1	1.9356
2	2	2	2.0788
2	2	overall	1.9765
2	2	observed	1.9679
2	1	1	1.5956
2	1	2	1.5399
2	1	overall	1.5797
2	1	observed	1.4862

1	2	1	1.7619
1	2	2	2.7015
1	2	overall	2.0306
1	2	observed	1.9478
1	1	1	1.4219
1	1	2	2.1627
1	1	overall	1.6337
1	1	observed	1.4913
1		1.0000	0.0000 0.0000
2		0.0000	1.0000 1.0000
overall		0.7141	0.2859 0.2859
observed		0.5116	0.4884 0.4884

* Factor analysis output *

Factor correlation matrix

	uC	uy	i	s	C
uC	1.0000	0.0000	0.0000	0.0000	0.0000
uy	0.0000	1.0000	0.0000	0.0000	0.0000
i	0.0000	0.0000	1.0000	0.0000	0.0000
s	0.0000	0.0000	0.0000	1.0000	0.0000
C	0.0000	0.0000	0.0000	0.0000	1.0000

Pattern matrix

	uC	uy	i	s	C
disr1	-0.0987	0.1199	0.8602	-0.0000	0.2432
disr2	-0.0676	0.0919	0.6591	0.6591	0.1735
disr3	-0.0390	0.0603	0.4326	0.8651	0.1055
disr4	-0.0243	0.0434	0.3113	0.9338	0.0699
disr5	-0.0158	0.0335	0.2400	0.9600	0.0492
c50	-0.6115	-0.0000	-0.0000	-0.0000	1.0000

Error correlation matrix

	disr1	disr2	disr3	disr4	disr5	c50
disr1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
disr2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
disr3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
disr4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
disr5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
c50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Structure matrix

	uC	uy	i	s	C
disr1	-0.0987	0.1199	0.8602	0.0000	0.2432
disr2	-0.0676	0.0919	0.6591	0.6591	0.1735
disr3	-0.0390	0.0603	0.4326	0.8651	0.1055
disr4	-0.0243	0.0434	0.3113	0.9338	0.0699
disr5	-0.0158	0.0335	0.2400	0.9600	0.0492
c50	-0.6115	0.0000	0.0000	0.0000	1.0000

R-squared contributions

uC	uy	i	s	C	FA	LCFA
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disr1	0.0097	0.0144	0.7400	-0.0000	0.0591	0.8233	0.8175
disr2	0.0046	0.0084	0.4344	0.4344	0.0301	0.9118	0.9097
disr3	0.0015	0.0036	0.1871	0.7485	0.0111	0.9519	0.9514
disr4	0.0006	0.0019	0.0969	0.8721	0.0049	0.9763	0.9763
disr5	0.0002	0.0011	0.0576	0.9216	0.0024	0.9830	0.9831
c50	0.3740	-0.0000	-0.0000	-0.0000	1.0000	1.3740	1.0000

Iteration Detail

Starting set	log-posterior	log-likelihood	seed
4	-12284.6935906075	-12206.4838306737	1082906
6	-13462.9932971740	-13382.6175662741	2397979
5	-12355.3748218144	-12278.6727131613	1959422
7	-12387.8518287781	-12306.2600362629	37996
2	-12241.5229578197	-12160.1631544870	427589
1	-12417.8970128378	-12339.9593334810	343050
3	-12444.1059110637	-12356.0124371958	1923466
8	-12950.1442972404	-12864.5385910974	631803
9	-12459.0851719554	-12376.0781742968	2342678
11	-12379.2399673812	-12298.4014399486	979926
10	-12344.8764593742	-12260.0215930843	384105
13	-18027.6826718816	-17941.0862207656	2354372
14	-12291.9341388238	-12209.9895402818	1901639
12	-12616.0268759543	-12525.3606256185	1803873
19	-13040.2780206266	-12945.0615364034	2202474
16	-12357.8148914477	-12276.4199658519	1649950
15	-12442.4120089189	-12366.2801267094	625293
17	-13178.7902495050	-13098.4160630179	1592095
18	-13100.2344520677	-13007.8921409248	1749761
21	-12225.1295193799	-12146.2127461738	1270259
20	-12893.5234191939	-12805.6557907180	2772272
22	-12856.5097982141	-12772.6054203173	922812
26	-12447.7413580126	-12366.1713784265	1448352
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Standard errors

Preparing output

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