

Health ~ Boredom with bounds=T

lavaan 0.6-6 ended normally after 400 iterations

Estimator	ML
Optimization method	NLMINB
Number of free parameters	109
Number of equality constraints	24
Number of observations	1229
Number of missing patterns	40

Model Test User Model:

	Standard	Robust
Test Statistic	1693.984	1182.168
Degrees of freedom	214	214
P-value (Chi-square)	0.000	0.000
Scaling correction factor		1.433
Yuan-Bentler correction (Mplus variant)		

Parameter Estimates:

Standard errors	Sandwich
Information bread	Observed
Observed information based on	Hessian

Latent Variables:

	Estimate	Std.Err	z-value	P(> z)
boredom_0 =~				
bos1_0 (lmb1)	0.700	0.612	1.143	0.253
bos2_0 (lmb2)	0.752	0.665	1.131	0.258
bos3_0 (lmb3)	0.690	0.614	1.124	0.261
bos4_0 (lmb4)	0.855	0.751	1.138	0.255
bos5_0 (lmb5)	0.787	0.719	1.095	0.273
bos6_0 (lmb6)	0.765	0.691	1.108	0.268
boredom_1 =~				
bos1_1 (lmb1)	0.700	0.612	1.143	0.253
bos2_1 (lmb2)	0.752	0.665	1.131	0.258
bos3_1 (lmb3)	0.690	0.614	1.124	0.261
bos4_1 (lmb4)	0.855	0.751	1.138	0.255
bos5_1 (lmb5)	0.787	0.719	1.095	0.273
bos6_1 (lmb6)	0.765	0.691	1.108	0.268
boredom_2 =~				
bos1_2 (lmb1)	0.700	0.612	1.143	0.253
bos2_2 (lmb2)	0.752	0.665	1.131	0.258
bos3_2 (lmb3)	0.690	0.614	1.124	0.261
bos4_2 (lmb4)	0.855	0.751	1.138	0.255
bos5_2 (lmb5)	0.787	0.719	1.095	0.273
bos6_2 (lmb6)	0.765	0.691	1.108	0.268
i =~				
bordm_0	1.000			
bordm_1	1.000			
bordm_2	1.000			
s =~				
bordm_0	0.000			
bordm_1	1.000			

bordm_2 2.000

Regressions:

	Estimate	Std.Err	z-value	P(> z)
KC27ph_T ~ i	-2.490	1.429	-1.743	0.081
KC27pw_T ~ i	-3.791	2.490	-1.523	0.128
KC27pa_T ~ i	-2.333	1.592	-1.465	0.143
KC27pe_T ~ i	-1.202	0.779	-1.543	0.123
KC27sc_T ~ i	-4.640	2.967	-1.564	0.118
KC27ph_T ~ s	-4.254	7.981	-0.533	0.594
KC27pw_T ~ s	-5.146	8.860	-0.581	0.561
KC27pa_T ~ s	-3.442	6.355	-0.542	0.588
KC27pe_T ~ s	-0.608	0.880	-0.691	0.490
KC27sc_T ~ s	-7.178	13.301	-0.540	0.589

Covariances:

	Estimate	Std.Err	z-value	P(> z)
.bos1_0 ~ .bos1_1	0.163	0.036	4.537	0.000
.bos1_0 ~ .bos1_2	0.101	0.028	3.637	0.000
.bos1_1 ~ .bos1_2	0.117	0.100	1.173	0.241
.bos2_0 ~ .bos2_1	0.066	0.044	1.500	0.134
.bos2_0 ~ .bos2_2	0.089	0.033	2.727	0.006
.bos2_1 ~ .bos2_2	0.076	0.120	0.637	0.524
.bos3_0 ~ .bos3_1	0.102	0.029	3.499	0.000
.bos3_0 ~ .bos3_2	0.088	0.027	3.301	0.001
.bos3_1 ~ .bos3_2	0.077	0.110	0.700	0.484
.bos4_0 ~ .bos4_1	0.161	0.056	2.896	0.004
.bos4_0 ~ .bos4_2	0.163	0.044	3.700	0.000
.bos4_1 ~ .bos4_2	0.157	0.140	1.121	0.262
.bos5_0 ~ .bos5_1	0.405	0.070	5.804	0.000
.bos5_0 ~ .bos5_2	0.309	0.047	6.510	0.000
.bos5_1 ~ .bos5_2	0.385	0.136	2.826	0.005
.bos6_0 ~ .bos6_1	0.240	0.067	3.588	0.000

.bos6_2	0.241	0.041	5.919	0.000
.bos6_1 ~				
.bos6_2	0.217	0.137	1.578	0.115
i ~				
s	-0.157	0.489	-0.321	0.748
.KC27ph_T ~				
.KC27pw_T	70.390	4.664	15.093	0.000
.KC27pa_T	43.184	4.154	10.396	0.000
.KC27pe_T	46.407	4.324	10.733	0.000
.KC27sc_T	40.458	3.910	10.348	0.000
.KC27pw_T ~				
.KC27pa_T	64.046	4.316	14.838	0.000
.KC27pe_T	56.512	4.563	12.386	0.000
.KC27sc_T	56.660	4.255	13.317	0.000
.KC27pa_T ~				
.KC27pe_T	50.111	4.416	11.348	0.000
.KC27sc_T	44.067	4.114	10.712	0.000
.KC27pe_T ~				
.KC27sc_T	37.313	4.226	8.829	0.000

Intercepts:

		Estimate	Std.Err	z-value	P(> z)
.bos1_0	(i1)	2.612	0.094	27.794	0.000
.bos2_0	(i2)	2.257	0.102	22.021	0.000
.bos3_0	(i3)	2.058	0.095	21.602	0.000
.bos4_0	(i4)	3.048	0.115	26.474	0.000
.bos5_0	(i5)	2.978	0.111	26.870	0.000
.bos6_0	(i6)	2.479	0.106	23.366	0.000
.bos1_1	(i1)	2.612	0.094	27.794	0.000
.bos2_1	(i2)	2.257	0.102	22.021	0.000
.bos3_1	(i3)	2.058	0.095	21.602	0.000
.bos4_1	(i4)	3.048	0.115	26.474	0.000
.bos5_1	(i5)	2.978	0.111	26.870	0.000
.bos6_1	(i6)	2.479	0.106	23.366	0.000
.bos1_2	(i1)	2.612	0.094	27.794	0.000
.bos2_2	(i2)	2.257	0.102	22.021	0.000
.bos3_2	(i3)	2.058	0.095	21.602	0.000
.bos4_2	(i4)	3.048	0.115	26.474	0.000
.bos5_2	(i5)	2.978	0.111	26.870	0.000
.bos6_2	(i6)	2.479	0.106	23.366	0.000
.boredom_0		0.000			
.boredom_1		0.000			
.boredom_2		0.000			
i		-0.237	0.123	-1.930	0.054
s		0.056	0.058	0.959	0.337
.KC27ph_T		48.221	0.300	160.655	0.000
.KC27pw_T		48.059	0.213	225.304	0.000
.KC27pa_T		53.295	0.258	206.603	0.000
.KC27pe_T		52.040	0.321	162.015	0.000
.KC27sc_T		49.018	0.226	216.813	0.000

Variances:

		Estimate	Std.Err	z-value	P(> z)
.bos1_0		0.715	0.039	18.376	0.000

.bos2_0	0.663	0.040	16.412	0.000
.bos3_0	0.539	0.033	16.230	0.000
.bos4_0	0.703	0.048	14.695	0.000
.bos5_0	1.025	0.062	16.643	0.000
.bos6_0	0.772	0.050	15.507	0.000
.bos1_1	0.781	0.202	3.872	0.000
.bos2_1	0.682	0.246	2.767	0.006
.bos3_1	0.692	0.256	2.701	0.007
.bos4_1	0.892	0.288	3.095	0.002
.bos5_1	1.127	0.288	3.907	0.000
.bos6_1	0.891	0.252	3.530	0.000
.bos1_2	0.702	0.049	14.328	0.000
.bos2_2	0.560	0.055	10.120	0.000
.bos3_2	0.628	0.059	10.633	0.000
.bos4_2	0.739	0.066	11.260	0.000
.bos5_2	1.038	0.076	13.631	0.000
.bos6_2	0.740	0.073	10.161	0.000
.bordm_0	1.000			
.bordm_1 (lb+b)	0.000	0.056	0.000	
.bordm_2 (lb+b)	0.000	0.740	0.000	
i (lb)	1.000	1.402	0.713	
s	0.267	0.939	0.285	0.776
.KC27p_T	130.622	5.518	23.673	0.000
.KC27p_T	145.631	6.443	22.602	0.000
.KC27p_T	122.096	5.832	20.936	0.000
.KC27p_T	133.901	5.663	23.646	0.000
.KC27s_T	84.736	5.655	14.985	0.000

\$PE

	lhs	op	rhs	label	exo	est	lower
upper		se	z		pvalue		
1	boredom_0	=~	bos1_0	lambda1	0	0.69971788	-1.4133592
	1.413359	0.61199074	1.1433472	2.528945e-01			
2	boredom_0	=~	bos2_0	lambda2	0	0.75193370	-1.3650598
	1.365060	0.66471973	1.1312041	2.579692e-01			
3	boredom_0	=~	bos3_0	lambda3	0	0.69019414	-1.2822872
	1.282287	0.61412873	1.1238591	2.610728e-01			
4	boredom_0	=~	bos4_0	lambda4	0	0.85513348	-1.5918985
	1.591899	0.75143940	1.1379939	2.551230e-01			
5	boredom_0	=~	bos5_0	lambda5	0	0.78701321	-1.6535410
	1.653541	0.71866841	1.0950992	2.734732e-01			
6	boredom_0	=~	bos6_0	lambda6	0	0.76526293	-1.5169286
	1.516929	0.69083824	1.1077310	2.679780e-01			
7	boredom_1	=~	bos1_1	lambda1	0	0.69971788	-1.4424994
	1.442499	0.61199074	1.1433472	2.528945e-01			
8	boredom_1	=~	bos2_1	lambda2	0	0.75193370	-1.4786206
	1.478621	0.66471973	1.1312041	2.579692e-01			
9	boredom_1	=~	bos3_1	lambda3	0	0.69019414	-1.4023984
	1.402398	0.61412873	1.1238591	2.610728e-01			
10	boredom_1	=~	bos4_1	lambda4	0	0.85513348	-1.6180126
	1.618013	0.75143940	1.1379939	2.551230e-01			
11	boredom_1	=~	bos5_1	lambda5	0	0.78701321	-1.6923874
	1.692387	0.71866841	1.0950992	2.734732e-01			
12	boredom_1	=~	bos6_1	lambda6	0	0.76526293	-1.5233987

1.523399	0.69083824	1.1077310	2.679780e-01			
13	boredom_2 =~	bos1_2 lambda1	0	0.69971788	-1.4369491	
1.436949	0.61199074	1.1433472	2.528945e-01			
14	boredom_2 =~	bos2_2 lambda2	0	0.75193370	-1.4422518	
1.442252	0.66471973	1.1312041	2.579692e-01			
15	boredom_2 =~	bos3_2 lambda3	0	0.69019414	-1.3995043	
1.399504	0.61412873	1.1238591	2.610728e-01			
16	boredom_2 =~	bos4_2 lambda4	0	0.85513348	-1.6228588	
1.622859	0.75143940	1.1379939	2.551230e-01			
17	boredom_2 =~	bos5_2 lambda5	0	0.78701321	-1.6761888	
1.676189	0.71866841	1.0950992	2.734732e-01			
18	boredom_2 =~	bos6_2 lambda6	0	0.76526293	-1.5182120	
1.518212	0.69083824	1.1077310	2.679780e-01			
19	bos1_0 ~1		i1	0	2.61169619	-Inf
Inf	0.09396716	27.7937121	0.000000e+00			
20	bos2_0 ~1		i2	0	2.25712498	-Inf
Inf	0.10249929	22.0208842	0.000000e+00			
21	bos3_0 ~1		i3	0	2.05831570	-Inf
Inf	0.09528183	21.6023957	0.000000e+00			
22	bos4_0 ~1		i4	0	3.04795159	-Inf
Inf	0.11513184	26.4735758	0.000000e+00			
23	bos5_0 ~1		i5	0	2.97800129	-Inf
Inf	0.11082926	26.8701732	0.000000e+00			
24	bos6_0 ~1		i6	0	2.47857239	-Inf
Inf	0.10607728	23.3657238	0.000000e+00			
25	bos1_1 ~1		i1	0	2.61169619	-Inf
Inf	0.09396716	27.7937121	0.000000e+00			
26	bos2_1 ~1		i2	0	2.25712498	-Inf
Inf	0.10249929	22.0208842	0.000000e+00			
27	bos3_1 ~1		i3	0	2.05831570	-Inf
Inf	0.09528183	21.6023957	0.000000e+00			
28	bos4_1 ~1		i4	0	3.04795159	-Inf
Inf	0.11513184	26.4735758	0.000000e+00			
29	bos5_1 ~1		i5	0	2.97800129	-Inf
Inf	0.11082926	26.8701732	0.000000e+00			
30	bos6_1 ~1		i6	0	2.47857239	-Inf
Inf	0.10607728	23.3657238	0.000000e+00			
31	bos1_2 ~1		i1	0	2.61169619	-Inf
Inf	0.09396716	27.7937121	0.000000e+00			
32	bos2_2 ~1		i2	0	2.25712498	-Inf
Inf	0.10249929	22.0208842	0.000000e+00			
33	bos3_2 ~1		i3	0	2.05831570	-Inf
Inf	0.09528183	21.6023957	0.000000e+00			
34	bos4_2 ~1		i4	0	3.04795159	-Inf
Inf	0.11513184	26.4735758	0.000000e+00			
35	bos5_2 ~1		i5	0	2.97800129	-Inf
Inf	0.11082926	26.8701732	0.000000e+00			
36	bos6_2 ~1		i6	0	2.47857239	-Inf
Inf	0.10607728	23.3657238	0.000000e+00			
37	bos1_0 ~~	bos1_0		0	0.71507926	-0.2774422
1.664653	0.03891401	18.3758839	0.000000e+00			
38	bos2_0 ~~	bos2_0		0	0.66342223	-0.2588039
1.552824	0.04042319	16.4119218	0.000000e+00			
39	bos3_0 ~~	bos3_0		0	0.53872816	-0.2283695

1.370217	0.03319430	16.2295388	0.000000e+00		
40	bos4_0 ~	bos4_0	0	0.70320400	-0.3519640
2.111784	0.04785468	14.6945701	0.000000e+00		
41	bos5_0 ~	bos5_0	0	1.02513418	-0.3797497
2.278498	0.06159660	16.6427065	0.000000e+00		
42	bos6_0 ~	bos6_0	0	0.77186563	-0.3195934
1.917560	0.04977586	15.5068264	0.000000e+00		
43	bos1_1 ~	bos1_1	0	0.78111183	-0.2890006
1.734004	0.20172291	3.8722018	1.078566e-04		
44	bos2_1 ~	bos2_1	0	0.68154464	-0.3036554
1.821932	0.24629160	2.7672265	5.653546e-03		
45	bos3_1 ~	bos3_1	0	0.69230887	-0.2731557
1.638934	0.25627629	2.7014159	6.904493e-03		
46	bos4_1 ~	bos4_1	0	0.89160213	-0.3636062
2.181637	0.28803876	3.0954242	1.965316e-03		
47	bos5_1 ~	bos5_1	0	1.12675078	-0.3978021
2.386813	0.28839388	3.9069857	9.345468e-05		
48	bos6_1 ~	bos6_1	0	0.89079315	-0.3223255
1.933953	0.25233409	3.5302133	4.152248e-04		
49	bos1_2 ~	bos1_2	0	0.70205214	-0.2867809
1.720686	0.04899772	14.3282602	0.000000e+00		
50	bos2_2 ~	bos2_2	0	0.56000425	-0.2889014
1.733409	0.05533503	10.1202488	0.000000e+00		
51	bos3_2 ~	bos3_2	0	0.62835535	-0.2720295
1.632177	0.05909530	10.6329152	0.000000e+00		
52	bos4_2 ~	bos4_2	0	0.73938322	-0.3657876
2.194725	0.06566278	11.2603093	0.000000e+00		
53	bos5_2 ~	bos5_2	0	1.03780777	-0.3902235
2.341341	0.07613360	13.6314026	0.000000e+00		
54	bos6_2 ~	bos6_2	0	0.73983374	-0.3201344
1.920806	0.07281366	10.1606451	0.000000e+00		
55	bos1_0 ~	bos1_1	0	0.16329798	-Inf
Inf	0.03599018	4.5372919	5.698120e-06		
56	bos1_0 ~	bos1_2	0	0.10072298	-Inf
Inf	0.02769054	3.6374509	2.753496e-04		
57	bos1_1 ~	bos1_2	0	0.11732853	-Inf
Inf	0.10001447	1.1731156	2.407495e-01		
58	bos2_0 ~	bos2_1	0	0.06575850	-Inf
Inf	0.04382937	1.5003296	1.335290e-01		
59	bos2_0 ~	bos2_2	0	0.08892839	-Inf
Inf	0.03261521	2.7265927	6.399198e-03		
60	bos2_1 ~	bos2_2	0	0.07620889	-Inf
Inf	0.11973054	0.6365033	5.244484e-01		
61	bos3_0 ~	bos3_1	0	0.10232910	-Inf
Inf	0.02924857	3.4986014	4.677052e-04		
62	bos3_0 ~	bos3_2	0	0.08824890	-Inf
Inf	0.02673602	3.3007491	9.642708e-04		
63	bos3_1 ~	bos3_2	0	0.07736439	-Inf
Inf	0.11045465	0.7004177	4.836665e-01		
64	bos4_0 ~	bos4_1	0	0.16087600	-Inf
Inf	0.05555973	2.8955507	3.784939e-03		
65	bos4_0 ~	bos4_2	0	0.16323623	-Inf
Inf	0.04412219	3.6996406	2.159050e-04		
66	bos4_1 ~	bos4_2	0	0.15668845	-Inf

Inf	0.13980371	1.1207746	2.623838e-01			
67	bos5_0 ~	bos5_1	0	0.40538834		-Inf
Inf	0.06985118	5.8036004	6.490585e-09			
68	bos5_0 ~	bos5_2	0	0.30916671		-Inf
Inf	0.04749097	6.5100099	7.514589e-11			
69	bos5_1 ~	bos5_2	0	0.38524294		-Inf
Inf	0.13631012	2.8262241	4.710030e-03			
70	bos6_0 ~	bos6_1	0	0.23984498		-Inf
Inf	0.06683790	3.5884579	3.326397e-04			
71	bos6_0 ~	bos6_2	0	0.24132225		-Inf
Inf	0.04077210	5.9188083	3.242826e-09			
72	bos6_1 ~	bos6_2	0	0.21679544		-Inf
Inf	0.13736926	1.5781947	1.145209e-01			
73	boredom_0 ~1		0	0.00000000	0.00000000	
	0.000000	0.00000000	NA	NA		
74	boredom_1 ~1		0	0.00000000	0.00000000	
	0.000000	0.00000000	NA	NA		
75	boredom_2 ~1		0	0.00000000	0.00000000	
	0.000000	0.00000000	NA	NA		
76	boredom_0 ~ boredom_0		0	1.00000000	1.00000000	
	1.000000	0.00000000	NA	NA		
77	boredom_1 ~ boredom_1		0	0.00000000	0.00000000	
	0.000000	0.05601722	0.00000000	NA		
78	boredom_2 ~ boredom_2		0	0.00000000	0.00000000	
	0.000000	0.74004393	0.00000000	NA		
79	i ~ boredom_0		0	1.00000000	1.00000000	
	1.000000	0.00000000	NA	NA		
80	i ~ boredom_1		0	1.00000000	1.00000000	
	1.000000	0.00000000	NA	NA		
81	i ~ boredom_2		0	1.00000000	1.00000000	
	1.000000	0.00000000	NA	NA		
82	s ~ boredom_0		0	0.00000000	0.00000000	
	0.000000	0.00000000	NA	NA		
83	s ~ boredom_1		0	1.00000000	1.00000000	
	1.000000	0.00000000	NA	NA		
84	s ~ boredom_2		0	2.00000000	2.00000000	
	2.000000	0.00000000	NA	NA		
85	i ~1		0	-0.23683991		-Inf
Inf	0.12269720	-1.9302796	5.357220e-02			
86	s ~1		0	0.05550139		-Inf
Inf	0.05786284	0.9591889	3.374636e-01			
87	i ~	i	0	1.00000000	1.00000000	
	0.000000	1.40186212	0.7133369	NA		
88	s ~	s	0	0.26735315	1.00000000	
	0.000000	0.93947198	0.2845781	7.759674e-01		
89	KC27ph_T ~	i	0	-2.49004048		-Inf
Inf	1.42900404	-1.7425007	8.142088e-02			
90	KC27pw_T ~	i	0	-3.79108909		-Inf
Inf	2.48989329	-1.5225910	1.278611e-01			
91	KC27pa_T ~	i	0	-2.33252967		-Inf
Inf	1.59224265	-1.4649335	1.429391e-01			
92	KC27pe_T ~	i	0	-1.20203460		-Inf
Inf	0.77914126	-1.5427685	1.228870e-01			
93	KC27sc_T ~	i	0	-4.64033283		-Inf

Inf	2.96727767	-1.5638351	1.178563e-01		
94	KC27ph_T ~	s	0	-4.25396223	-Inf
Inf	7.98131227	-0.5329903	5.940403e-01		
95	KC27pw_T ~	s	0	-5.14596620	-Inf
Inf	8.85990796	-0.5808149	5.613652e-01		
96	KC27pa_T ~	s	0	-3.44198916	-Inf
Inf	6.35461411	-0.5416520	5.880583e-01		
97	KC27pe_T ~	s	0	-0.60772811	-Inf
Inf	0.87952498	-0.6909731	4.895824e-01		
98	KC27sc_T ~	s	0	-7.17772644	-Inf
Inf	13.30063958	-0.5396527	5.894365e-01		
99	KC27ph_T ~	KC27ph_T	0	130.62233298	-27.7980687
166.	788412	5.51787165	23.6725936	0.000000e+00	
100	KC27pw_T ~	KC27pw_T	0	145.63127676	-32.5428397
195.	257038	6.44316139	22.6024568	0.000000e+00	
101	KC27pa_T ~	KC27pa_T	0	122.09597372	-25.7634333
154.	580600	5.83193789	20.9357466	0.000000e+00	
102	KC27pe_T ~	KC27pe_T	0	133.90095852	-27.0913489
162.	548093	5.66273373	23.6459924	0.000000e+00	
103	KC27sc_T ~	KC27sc_T	0	84.73556175	-22.4041894
134.	425136	5.65465642	14.9850947	0.000000e+00	
104	i ~	s	0	-0.15695590	-Inf
Inf	0.48893812	-0.3210138	7.481999e-01		
105	KC27ph_T ~	KC27pw_T	0	70.38961327	-Inf
Inf	4.66359858	15.0934117	0.000000e+00		
106	KC27ph_T ~	KC27pa_T	0	43.18388221	-Inf
Inf	4.15391518	10.3959470	0.000000e+00		
107	KC27ph_T ~	KC27pe_T	0	46.40744985	-Inf
Inf	4.32388942	10.7328022	0.000000e+00		
108	KC27ph_T ~	KC27sc_T	0	40.45812999	-Inf
Inf	3.90965758	10.3482541	0.000000e+00		
109	KC27pw_T ~	KC27pa_T	0	64.04645034	-Inf
Inf	4.31648198	14.8376504	0.000000e+00		
110	KC27pw_T ~	KC27pe_T	0	56.51220547	-Inf
Inf	4.56274529	12.3855709	0.000000e+00		
111	KC27pw_T ~	KC27sc_T	0	56.66000112	-Inf
Inf	4.25472046	13.3169739	0.000000e+00		
112	KC27pa_T ~	KC27pe_T	0	50.11070722	-Inf
Inf	4.41594099	11.3476850	0.000000e+00		
113	KC27pa_T ~	KC27sc_T	0	44.06696688	-Inf
Inf	4.11379153	10.7120078	0.000000e+00		
114	KC27pe_T ~	KC27sc_T	0	37.31325303	-Inf
Inf	4.22615873	8.8291177	0.000000e+00		
115	KC27ph_T ~1		0	48.22066120	-Inf
Inf	0.30015065	160.6548593	0.000000e+00		
116	KC27pw_T ~1		0	48.05918178	-Inf
Inf	0.21330841	225.3037367	0.000000e+00		
117	KC27pa_T ~1		0	53.29467919	-Inf
Inf	0.25795698	206.6029766	0.000000e+00		
118	KC27pe_T ~1		0	52.04039919	-Inf
Inf	0.32120654	162.0153771	0.000000e+00		
119	KC27sc_T ~1		0	49.01776687	-Inf
Inf	0.22608338	216.8127790	0.000000e+00		

Boredom ~ Health (no bounds necessary)

This way it would support my assumptions

lavaan 0.6-6 ended normally after 155 iterations

Estimator	ML
Optimization method	NLMINB
Number of free parameters	89
Number of equality constraints	24
Number of observations	1229
Number of missing patterns	40

Model Test User Model:

	Standard	Robust
Test Statistic	892.498	757.100
Degrees of freedom	214	214
P-value (Chi-square)	0.000	0.000
Scaling correction factor		1.179
Yuan-Bentler correction (Mplus variant)		

Parameter Estimates:

Standard errors	Sandwich
Information bread	Observed
Observed information based on	Hessian

Latent Variables:

	Estimate	Std.Err	z-value	P(> z)
boredom_0 =~				
bos1_0 (lmb1)	0.302	0.056	5.347	0.000
bos2_0 (lmb2)	0.326	0.061	5.378	0.000
bos3_0 (lmb3)	0.305	0.057	5.380	0.000
bos4_0 (lmb4)	0.369	0.069	5.322	0.000
bos5_0 (lmb5)	0.343	0.065	5.275	0.000
bos6_0 (lmb6)	0.332	0.063	5.243	0.000
boredom_1 =~				
bos1_1 (lmb1)	0.302	0.056	5.347	0.000
bos2_1 (lmb2)	0.326	0.061	5.378	0.000
bos3_1 (lmb3)	0.305	0.057	5.380	0.000
bos4_1 (lmb4)	0.369	0.069	5.322	0.000
bos5_1 (lmb5)	0.343	0.065	5.275	0.000
bos6_1 (lmb6)	0.332	0.063	5.243	0.000
boredom_2 =~				
bos1_2 (lmb1)	0.302	0.056	5.347	0.000
bos2_2 (lmb2)	0.326	0.061	5.378	0.000
bos3_2 (lmb3)	0.305	0.057	5.380	0.000
bos4_2 (lmb4)	0.369	0.069	5.322	0.000
bos5_2 (lmb5)	0.343	0.065	5.275	0.000
bos6_2 (lmb6)	0.332	0.063	5.243	0.000
i =~				
bordm_0	1.000			
bordm_1	1.000			
bordm_2	1.000			
s =~				
bordm_0	0.000			
bordm_1	1.000			

bordm_2 2.000

Regressions:

	Estimate	Std.Err	z-value	P(> z)
i ~				
KC27ph_T	-0.012	0.008	-1.469	0.142
KC27pw_T	-0.015	0.010	-1.565	0.118
KC27pa_T	0.010	0.009	1.106	0.269
KC27pe_T	0.009	0.008	1.116	0.264
KC27sc_T	-0.090	0.020	-4.621	0.000
s ~				
KC27ph_T	0.001	0.005	0.245	0.807
KC27pw_T	0.000	0.005	0.023	0.982
KC27pa_T	-0.004	0.005	-0.888	0.374
KC27pe_T	0.010	0.005	2.232	0.026
KC27sc_T	-0.018	0.007	-2.790	0.005

Covariances:

	Estimate	Std.Err	z-value	P(> z)
.bos1_0 ~~				
.bos1_1	0.156	0.028	5.528	0.000
.bos1_2	0.100	0.026	3.904	0.000
.bos1_1 ~~				
.bos1_2	0.151	0.027	5.566	0.000
.bos2_0 ~~				
.bos2_1	0.077	0.027	2.836	0.005
.bos2_2	0.083	0.026	3.229	0.001
.bos2_1 ~~				
.bos2_2	0.115	0.024	4.834	0.000
.bos3_0 ~~				
.bos3_1	0.098	0.024	4.142	0.000
.bos3_2	0.089	0.024	3.760	0.000
.bos3_1 ~~				
.bos3_2	0.117	0.024	4.945	0.000
.bos4_0 ~~				
.bos4_1	0.168	0.032	5.188	0.000
.bos4_2	0.158	0.029	5.382	0.000
.bos4_1 ~~				
.bos4_2	0.204	0.032	6.322	0.000
.bos5_0 ~~				
.bos5_1	0.418	0.045	9.366	0.000
.bos5_2	0.307	0.039	7.849	0.000
.bos5_1 ~~				
.bos5_2	0.434	0.044	9.934	0.000
.bos6_0 ~~				
.bos6_1	0.247	0.037	6.713	0.000
.bos6_2	0.233	0.033	6.989	0.000
.bos6_1 ~~				
.bos6_2	0.270	0.038	7.051	0.000
.i ~~				
.s	-0.869	0.514	-1.689	0.091

Intercepts:

	Estimate	Std.Err	z-value	P(> z)
--	----------	---------	---------	---------

.bos1_0	(i1)	3.076	0.076	40.670	0.000
.bos2_0	(i2)	2.761	0.082	33.503	0.000
.bos3_0	(i3)	2.533	0.079	32.006	0.000
.bos4_0	(i4)	3.614	0.090	40.229	0.000
.bos5_0	(i5)	3.507	0.087	40.143	0.000
.bos6_0	(i6)	2.989	0.082	36.382	0.000
.bos1_1	(i1)	3.076	0.076	40.670	0.000
.bos2_1	(i2)	2.761	0.082	33.503	0.000
.bos3_1	(i3)	2.533	0.079	32.006	0.000
.bos4_1	(i4)	3.614	0.090	40.229	0.000
.bos5_1	(i5)	3.507	0.087	40.143	0.000
.bos6_1	(i6)	2.989	0.082	36.382	0.000
.bos1_2	(i1)	3.076	0.076	40.670	0.000
.bos2_2	(i2)	2.761	0.082	33.503	0.000
.bos3_2	(i3)	2.533	0.079	32.006	0.000
.bos4_2	(i4)	3.614	0.090	40.229	0.000
.bos5_2	(i5)	3.507	0.087	40.143	0.000
.bos6_2	(i6)	2.989	0.082	36.382	0.000
.boredom_0		0.000			
.boredom_1		0.000			
.boredom_2		0.000			
.i		2.754	0.479	5.753	0.000
.s		0.654	0.265	2.468	0.014

Variances:

	Estimate	Std.Err	z-value	P(> z)
.bos1_0	0.717	0.037	19.121	0.000
.bos2_0	0.655	0.038	17.213	0.000
.bos3_0	0.542	0.032	16.865	0.000
.bos4_0	0.723	0.042	17.222	0.000
.bos5_0	1.033	0.057	18.015	0.000
.bos6_0	0.789	0.046	17.135	0.000
.bos1_1	0.711	0.038	18.734	0.000
.bos2_1	0.578	0.038	15.326	0.000
.bos3_1	0.568	0.038	14.943	0.000
.bos4_1	0.787	0.044	17.968	0.000
.bos5_1	1.019	0.055	18.419	0.000
.bos6_1	0.808	0.049	16.597	0.000
.bos1_2	0.692	0.036	19.352	0.000
.bos2_2	0.544	0.035	15.713	0.000
.bos3_2	0.608	0.040	15.314	0.000
.bos4_2	0.726	0.041	17.858	0.000
.bos5_2	1.022	0.052	19.625	0.000
.bos6_2	0.718	0.041	17.571	0.000
.boredom_0	1.000			
.boredom_1	2.568	1.040	2.468	0.014
.boredom_2	0.894	0.411	2.174	0.030
.i	4.878	2.154	2.264	0.024
.s	0.958	0.500	1.917	0.055

\$PE

z	lhs op	rhs	label	exo	est	se
1	boredom_0 =~	bos1_0	lambda1	0	3.015105e-01	0.056393430

5.3465541	8.964448e-08					
2	boredom_0 =~	bos2_0	lambda2	0	3.264967e-01	0.060704476
5.3784612	7.512515e-08					
3	boredom_0 =~	bos3_0	lambda3	0	3.049077e-01	0.056676695
5.3797722	7.458016e-08					
4	boredom_0 =~	bos4_0	lambda4	0	3.685876e-01	0.069259551
5.3218305	1.027283e-07					
5	boredom_0 =~	bos5_0	lambda5	0	3.426340e-01	0.064949091
5.2754237	1.324497e-07					
6	boredom_0 =~	bos6_0	lambda6	0	3.315438e-01	0.063241159
5.2425313	1.583885e-07					
7	boredom_1 =~	bos1_1	lambda1	0	3.015105e-01	0.056393430
5.3465541	8.964448e-08					
8	boredom_1 =~	bos2_1	lambda2	0	3.264967e-01	0.060704476
5.3784612	7.512515e-08					
9	boredom_1 =~	bos3_1	lambda3	0	3.049077e-01	0.056676695
5.3797722	7.458017e-08					
10	boredom_1 =~	bos4_1	lambda4	0	3.685876e-01	0.069259550
5.3218305	1.027282e-07					
11	boredom_1 =~	bos5_1	lambda5	0	3.426340e-01	0.064949091
5.2754237	1.324497e-07					
12	boredom_1 =~	bos6_1	lambda6	0	3.315438e-01	0.063241159
5.2425313	1.583885e-07					
13	boredom_2 =~	bos1_2	lambda1	0	3.015105e-01	0.056393430
5.3465541	8.964448e-08					
14	boredom_2 =~	bos2_2	lambda2	0	3.264967e-01	0.060704476
5.3784612	7.512515e-08					
15	boredom_2 =~	bos3_2	lambda3	0	3.049077e-01	0.056676695
5.3797722	7.458016e-08					
16	boredom_2 =~	bos4_2	lambda4	0	3.685876e-01	0.069259551
5.3218305	1.027283e-07					
17	boredom_2 =~	bos5_2	lambda5	0	3.426340e-01	0.064949091
5.2754237	1.324497e-07					
18	boredom_2 =~	bos6_2	lambda6	0	3.315438e-01	0.063241159
5.2425313	1.583885e-07					
19	bos1_0 ~1		i1	0	3.075996e+00	0.075633801
40.6695911	0.000000e+00					
20	bos2_0 ~1		i2	0	2.761299e+00	0.082418858
33.5032462	0.000000e+00					
21	bos3_0 ~1		i3	0	2.532604e+00	0.079127998
32.0064259	0.000000e+00					
22	bos4_0 ~1		i4	0	3.614414e+00	0.089846790
40.2286421	0.000000e+00					
23	bos5_0 ~1		i5	0	3.506851e+00	0.087358504
40.1432073	0.000000e+00					
24	bos6_0 ~1		i6	0	2.989265e+00	0.082162776
36.3822263	0.000000e+00					
25	bos1_1 ~1		i1	0	3.075996e+00	0.075633801
40.6695911	0.000000e+00					
26	bos2_1 ~1		i2	0	2.761299e+00	0.082418858
33.5032462	0.000000e+00					
27	bos3_1 ~1		i3	0	2.532604e+00	0.079127998
32.0064259	0.000000e+00					
28	bos4_1 ~1		i4	0	3.614414e+00	0.089846790

40.2286421	0.000000e+00				
29	bos5_1 ~1	i5	0	3.506851e+00	0.087358504
40.1432073	0.000000e+00				
30	bos6_1 ~1	i6	0	2.989265e+00	0.082162776
36.3822263	0.000000e+00				
31	bos1_2 ~1	i1	0	3.075996e+00	0.075633801
40.6695911	0.000000e+00				
32	bos2_2 ~1	i2	0	2.761299e+00	0.082418858
33.5032462	0.000000e+00				
33	bos3_2 ~1	i3	0	2.532604e+00	0.079127998
32.0064259	0.000000e+00				
34	bos4_2 ~1	i4	0	3.614414e+00	0.089846790
40.2286421	0.000000e+00				
35	bos5_2 ~1	i5	0	3.506851e+00	0.087358504
40.1432073	0.000000e+00				
36	bos6_2 ~1	i6	0	2.989265e+00	0.082162776
36.3822263	0.000000e+00				
37	bos1_0 ~ bos1_0		0	7.169426e-01	0.037494971
19.1210345	0.000000e+00				
38	bos2_0 ~ bos2_0		0	6.548576e-01	0.038044561
17.2129110	0.000000e+00				
39	bos3_0 ~ bos3_0		0	5.422818e-01	0.032154945
16.8646463	0.000000e+00				
40	bos4_0 ~ bos4_0		0	7.229040e-01	0.041975044
17.2222332	0.000000e+00				
41	bos5_0 ~ bos5_0		0	1.032970e+00	0.057338061
18.0154349	0.000000e+00				
42	bos6_0 ~ bos6_0		0	7.886227e-01	0.046025300
17.1345488	0.000000e+00				
43	bos1_1 ~ bos1_1		0	7.110783e-01	0.037955619
18.7344677	0.000000e+00				
44	bos2_1 ~ bos2_1		0	5.776534e-01	0.037690767
15.3261252	0.000000e+00				
45	bos3_1 ~ bos3_1		0	5.684245e-01	0.038038418
14.9434326	0.000000e+00				
46	bos4_1 ~ bos4_1		0	7.872166e-01	0.043811180
17.9683963	0.000000e+00				
47	bos5_1 ~ bos5_1		0	1.019263e+00	0.055336422
18.4193861	0.000000e+00				
48	bos6_1 ~ bos6_1		0	8.075688e-01	0.048658126
16.5967913	0.000000e+00				
49	bos1_2 ~ bos1_2		0	6.919283e-01	0.035754948
19.3519604	0.000000e+00				
50	bos2_2 ~ bos2_2		0	5.439933e-01	0.034620183
15.7131833	0.000000e+00				
51	bos3_2 ~ bos3_2		0	6.079895e-01	0.039702811
15.3135132	0.000000e+00				
52	bos4_2 ~ bos4_2		0	7.256785e-01	0.040635401
17.8582833	0.000000e+00				
53	bos5_2 ~ bos5_2		0	1.021801e+00	0.052065984
19.6251223	0.000000e+00				
54	bos6_2 ~ bos6_2		0	7.177073e-01	0.040845660
17.5711998	0.000000e+00				
55	bos1_0 ~ bos1_1		0	1.557960e-01	0.028181174

5.5283704	3.232191e-08			
56	bos1_0 ~	bos1_2	0	9.991961e-02 0.025592977
3.9041810	9.454501e-05			
57	bos1_1 ~	bos1_2	0	1.505512e-01 0.027048242
5.5660263	2.606139e-08			
58	bos2_0 ~	bos2_1	0	7.690126e-02 0.027111718
2.8364584	4.561692e-03			
59	bos2_0 ~	bos2_2	0	8.349772e-02 0.025856661
3.2292539	1.241137e-03			
60	bos2_1 ~	bos2_2	0	1.152076e-01 0.023831343
4.8342894	1.336221e-06			
61	bos3_0 ~	bos3_1	0	9.771531e-02 0.023592936
4.1417188	3.447128e-05			
62	bos3_0 ~	bos3_2	0	8.893455e-02 0.023653747
3.7598502	1.700151e-04			
63	bos3_1 ~	bos3_2	0	1.166491e-01 0.023589112
4.9450396	7.612837e-07			
64	bos4_0 ~	bos4_1	0	1.681083e-01 0.032404004
5.1878856	2.126952e-07			
65	bos4_0 ~	bos4_2	0	1.582751e-01 0.029407262
5.3821771	7.359032e-08			
66	bos4_1 ~	bos4_2	0	2.036845e-01 0.032219117
6.3218534	2.584446e-10			
67	bos5_0 ~	bos5_1	0	4.182266e-01 0.044652149
9.3663268	0.000000e+00			
68	bos5_0 ~	bos5_2	0	3.070318e-01 0.039116657
7.8491315	4.218847e-15			
69	bos5_1 ~	bos5_2	0	4.344617e-01 0.043733332
9.9343384	0.000000e+00			
70	bos6_0 ~	bos6_1	0	2.465782e-01 0.036731730
6.7129475	1.907319e-11			
71	bos6_0 ~	bos6_2	0	2.330014e-01 0.033336075
6.9894681	2.759348e-12			
72	bos6_1 ~	bos6_2	0	2.704370e-01 0.038352959
7.0512669	1.773026e-12			
73	boredom_0 ~		0	0.000000e+00 0.000000000
NA	NA			
74	boredom_1 ~		0	0.000000e+00 0.000000000
NA	NA			
75	boredom_2 ~		0	0.000000e+00 0.000000000
NA	NA			
76	boredom_0 ~	boredom_0	0	1.000000e+00 0.000000000
NA	NA			
77	boredom_1 ~	boredom_1	0	2.567506e+00 1.040187087
2.4683120	1.357519e-02			
78	boredom_2 ~	boredom_2	0	8.940475e-01 0.411173966
2.1743777	2.967678e-02			
79	i ~	boredom_0	0	1.000000e+00 0.000000000
NA	NA			
80	i ~	boredom_1	0	1.000000e+00 0.000000000
NA	NA			
81	i ~	boredom_2	0	1.000000e+00 0.000000000
NA	NA			
82	s ~	boredom_0	0	0.000000e+00 0.000000000

NA	NA			
83	s ≈ boredom_1	0	1.000000e+00	0.000000000
NA	NA			
84	s ≈ boredom_2	0	2.000000e+00	0.000000000
NA	NA			
85	i ~1	0	2.754130e+00	0.478690629
5.7534659	8.743210e-09			
86	s ~1	0	6.537703e-01	0.264928338
2.4677252	1.359746e-02			
87	i ~ i	0	4.877575e+00	2.154302048
2.2641092	2.356740e-02			
88	s ~ s	0	9.581628e-01	0.499699318
1.9174786	5.517715e-02			
89	i ~ KC27ph_T	0	-1.220828e-02	0.008308587
-1.4693565	1.417361e-01			
90	i ~ KC27pw_T	0	-1.527732e-02	0.009762635
-1.5648771	1.176117e-01			
91	i ~ KC27pa_T	0	9.684830e-03	0.008754537
1.1062641	2.686122e-01			
92	i ~ KC27pe_T	0	8.862602e-03	0.007941635
1.1159669	2.644363e-01			
93	i ~ KC27sc_T	0	-9.037293e-02	0.019555454
-4.6213672	3.812193e-06			
94	s ~ KC27ph_T	0	1.127524e-03	0.004606083
0.2447903	8.066188e-01			
95	s ~ KC27pw_T	0	1.087802e-04	0.004779469
0.0227599	9.818418e-01			
96	s ~ KC27pa_T	0	-4.216954e-03	0.004747975
-0.8881584	3.744555e-01			
97	s ~ KC27pe_T	0	1.045715e-02	0.004685371
2.2318715	2.562346e-02			
98	s ~ KC27sc_T	0	-1.822251e-02	0.006531215
-2.7900637	5.269768e-03			
99	i ~ s	0	-8.686012e-01	0.514200862
-1.6892256	9.117621e-02			
100	KC27ph_T ~ KC27ph_T	1	1.389903e+02	0.000000000
NA	NA			
101	KC27ph_T ~ KC27pw_T	1	8.221162e+01	0.000000000
NA	NA			
102	KC27ph_T ~ KC27pa_T	1	5.064793e+01	0.000000000
NA	NA			
103	KC27ph_T ~ KC27pe_T	1	4.944926e+01	0.000000000
NA	NA			
104	KC27ph_T ~ KC27sc_T	1	5.553499e+01	0.000000000
NA	NA			
105	KC27pw_T ~ KC27pw_T	1	1.627142e+02	0.000000000
NA	NA			
106	KC27pw_T ~ KC27pa_T	1	7.474691e+01	0.000000000
NA	NA			
107	KC27pw_T ~ KC27pe_T	1	6.122379e+01	0.000000000
NA	NA			
108	KC27pw_T ~ KC27sc_T	1	7.817481e+01	0.000000000
NA	NA			
109	KC27pa_T ~ KC27pa_T	1	1.288172e+02	0.000000000

NA	NA				
110	KC27pa_T	~	KC27pe_T	1	5.299291e+01 0.000000000
NA	NA				
111	KC27pa_T	~	KC27sc_T	1	5.760276e+01 0.000000000
NA	NA				
112	KC27pe_T	~	KC27pe_T	1	1.354567e+02 0.000000000
NA	NA				
113	KC27pe_T	~	KC27sc_T	1	4.302715e+01 0.000000000
NA	NA				
114	KC27sc_T	~	KC27sc_T	1	1.120209e+02 0.000000000
NA	NA				
115	KC27ph_T	~1		1	4.857430e+01 0.000000000
NA	NA				
116	KC27pw_T	~1		1	4.867145e+01 0.000000000
NA	NA				
117	KC27pa_T	~1		1	5.365608e+01 0.000000000
NA	NA				
118	KC27pe_T	~1		1	5.229136e+01 0.000000000
NA	NA				
119	KC27sc_T	~1		1	4.971841e+01 0.000000000
NA	NA				