MNL6.6 – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Lc - Var. binária de disponibilidade de Licença de condução (Lc)
- NCia - Var. binária nº auto disponíveis diariamente no agregado per capita (expto NC4a).

- Razão entre Oferta de Estacionamento pago/Total de oferta de estacionamentos (PO) e entre a Oferta total de estacionamento/Procura Total extrapolada (OV)

P13 Variável binária OV1=1 & PO3=1
P33 Variável binária OV3=1 & PO3=1
P12 Variável binária OV1=1 & PO2=1
P22 Variável binária OV2=1 & PO2=1
P32 Variável binária OV3=1 & PO2=1
P21 Variável binária OV2=1 & PO2=1
P31 Variável binária OV3=1 & PO1=1
P41 Variável binária OV4=1 & PO1=1 (excluída)

```
DISCRETECHOICE
;Lhs=MTRP
;Choices=Bp,B,Bo,M,P,A[1]
;Rh2=ONE,NC0,NC1,NC2,NC3, LC ,P13,P33,P12,P22,P32,P21,P31$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 09, 2012 at 11:18:31AM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                 31     |
| Log likelihood function       -18916.84     |
| Number of parameters                 65     |
| Info. Criterion: AIC =          2.01688     |
|   Finite Sample: AIC =          2.01690     |
| Info. Criterion: BIC =          2.04396     |
| Info. Criterion:HQIC =          2.02576     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .20923  .20868 |
| Chi-squared[60]          =  10010.40721     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
+---------------------------------------------+

+---------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).      |
|       Constants only => P(i,j) uses ASCs    |
|         only. N(j)/N if fixed choice set.   |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.      |
```

```
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
+---------------------------------------------+
```

Variable	Coefficient	Standard Error	b/St.Er.	P[|Z|>z]
A_BP	-5.74721187	1.00845450	-5.699	.0000
BP_NC01	5.64477547	1.00459002	5.619	.0000
BP_NC11	3.47282790	1.00748531	3.447	.0006
BP_NC21	3.01212289	1.00604764	2.994	.0028
BP_NC31	1.77165589	1.05087026	1.686	.0918
BP_LC1	-1.84820061	.09637069	-19.178	.0000
BP_P131	1.10055682	.13919566	7.907	.0000
BP_P331	1.27773362	.32957221	3.877	.0001
BP_P121	1.05698417	.16308197	6.481	.0000
BP_P221	.72565189	.14101043	5.146	.0000
BP_P321	.23094126	.32098422	.719	.4718
BP_P211	-1.32137365	.60237547	-2.194	.0283
BP_P311	.55792306	.19646345	2.840	.0045
A_B	-2.22507940	.17323002	-12.845	.0000
B_NC02	4.25304267	.17146443	24.804	.0000
B_NC12	2.02866042	.17136548	11.838	.0000
B_NC22	1.74459522	.16802939	10.383	.0000
B_NC32	.90401789	.18583854	4.865	.0000
B_LC2	-1.69358890	.04675731	-36.221	.0000
B_P132	1.30482793	.06579564	19.832	.0000
B_P332	.11985424	.22496122	.533	.5942
B_P122	1.07556498	.08019486	13.412	.0000
B_P222	.68831556	.06683524	10.299	.0000
B_P322	.02460748	.16049356	.153	.8781
B_P212	.13544257	.16290120	.831	.4057
B_P312	.24828682	.10083832	2.462	.0138
A_BO	-4.78676393	1.02397271	-4.675	.0000
BO_NC03	3.13612974	1.03299234	3.036	.0024
BO_NC13	2.59333020	1.02636667	2.527	.0115
BO_NC23	1.46556285	1.02833200	1.425	.1541
BO_NC33	2.04831747	1.04615797	1.958	.0502
BO_LC3	-1.80593247	.22871795	-7.896	.0000
BO_P133	-1.01514615	.33023696	-3.074	.0021
BO_P333	-29.9277910	.259309D+07	.000	1.0000
BO_P123	.25224277	.27774307	.908	.3638
BO_P223	-1.23804409	.32018697	-3.867	.0001
BO_P323	-.15164322	.53560199	-.283	.7771
BO_P213	-30.9680082	.242948D+07	.000	1.0000
BO_P313	-.68376994	.41339941	-1.654	.0981
A_M	-5.16679729	.61646746	-8.381	.0000
M_NC04	3.47126118	.59737534	5.811	.0000
M_NC14	1.55066413	.61602044	2.517	.0118
M_NC24	.83685462	.61091015	1.370	.1707
M_NC34	.80803266	.66969919	1.207	.2276
M_LC4	-.87351628	.17152365	-5.093	.0000
M_P134	.52270395	.25428083	2.056	.0398
M_P334	-29.6492105	.242424D+07	.000	1.0000
M_P124	.42964882	.31623680	1.359	.1743

M_P224	.44796413	.24853155	1.802	.0715
M_P324	.72789926	.46550379	1.564	.1179
M_P214	.98654622	.40407638	2.441	.0146
M_P314	-.50456873	.49241355	-1.025	.3055
A_P	-1.21093673	.12053874	-10.046	.0000
P_NC05	3.12903269	.11721848	26.694	.0000
P_NC15	.78401292	.11838953	6.622	.0000
P_NC25	.35802311	.11345437	3.156	.0016
P_NC35	-.19375858	.14117180	-1.373	.1699
P_LC5	-1.63808843	.04946240	-33.118	.0000
P_P135	.79346790	.07048985	11.256	.0000
P_P335	2.28681251	.17030606	13.428	.0000
P_P125	1.14747781	.08208071	13.980	.0000
P_P225	.52070674	.07033543	7.403	.0000
P_P325	1.63417071	.13321256	12.267	.0000
P_P215	-.91227896	.21763492	-4.192	.0000
P_P315	.65670582	.09905788	6.630	.0000

MNL6.7 – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Idi - Var. binária escalão etário (expto Id1)
- Ini - Var. binária nível de instrução (expto In4)
- Sexo - Var. binária Sexo
- Ri - Var. binária escalões do rend. Liquí. mensal do agreg (expto R5)
- Lc - Var. binária de disponibilidade de Licença de condução (Lc)
- NCia - Var. binária nº auto disponíveis diariamente no agregado per capita (expto NC4a).

- Razão entre Oferta de Estacionamento pago/Total de oferta de estacionamentos (PO) e entre a Oferta total de estacionamento/Procura Total extrapolada (OV)

P13 Variável binária OV1=1 & PO3=1
P33 Variável binária OV3=1 & PO3=1
P12 Variável binária OV1=1 & PO2=1
P22 Variável binária OV2=1 & PO2=1
P32 Variável binária OV3=1 & PO2=1
P21 Variável binária OV2=1 & PO2=1
P31 Variável binária OV3=1 & PO1=1
P41 Variável binária OV4=1 & PO1=1 (excluída)

```
DISCRETECHOICE
;Lhs=MTRP
;Choices=Bp,B,Bo,M,P,A[1]
;Rh2=ONE,NC0,NC1,NC2,NC3, R1,R2,R3,R4 ,SX ,ID2,ID3,ID4,ID5 ,IN1,IN2,IN3,
LC ,P13,P33,P12,P22,P32,P21,P31$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 09, 2012 at 11:39:01AM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                 34     |
| Log likelihood function       -18308.10     |
| Number of parameters                125     |
| Info. Criterion: AIC =          1.95857     |
|   Finite Sample: AIC =          1.95866     |
| Info. Criterion: BIC =          2.01066     |
| Info. Criterion:HQIC =          1.97566     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .23468  .23366 |
| Chi-squared[**]          =  11227.87850     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
+---------------------------------------------+
```

```
+--------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).     |
|       Constants only => P(i,j) uses ASCs   |
|         only. N(j)/N if fixed choice set.  |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.     |
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
+--------------------------------------------+
```

Variable	Coefficient	Standard Error	b/St.Er.	P[|Z|>z]
A_BP	-9.12670195	1.06933539	-8.535	.0000
BP_NC01	5.22043408	1.00639420	5.187	.0000
BP_NC11	3.19775207	1.00965002	3.167	.0015
BP_NC21	2.86248279	1.00749379	2.841	.0045
BP_NC31	1.88153649	1.05311469	1.787	.0740
BP_R11	.91819473	.23210900	3.956	.0001
BP_R21	1.03937873	.19325494	5.378	.0000
BP_R31	1.04376147	.19282593	5.413	.0000
BP_R41	.95701212	.21087685	4.538	.0000
BP_SX1	.56007633	.09444914	5.930	.0000
BP_ID21	1.77198785	.28955848	6.120	.0000
BP_ID31	1.80627012	.29157817	6.195	.0000
BP_ID41	1.76082159	.28139844	6.257	.0000
BP_ID51	2.02628068	.29700694	6.822	.0000
BP_IN11	.45431239	.36114859	1.258	.2084
BP_IN21	1.03652866	.22742842	4.558	.0000
BP_IN31	.93373201	.23378683	3.994	.0001
BP_LC1	-1.81283298	.11483276	-15.787	.0000
BP_P131	.95052408	.14100791	6.741	.0000
BP_P331	1.28787580	.33392952	3.857	.0001
BP_P121	.97038991	.16514906	5.876	.0000
BP_P221	.63541460	.14287204	4.447	.0000
BP_P321	.21153598	.32472735	.651	.5148
BP_P211	-1.41473067	.60340291	-2.345	.0190
BP_P311	.45190144	.19907598	2.270	.0232
A_B	-4.90163970	.22945139	-21.362	.0000
B_NC02	4.05257701	.17525829	23.123	.0000
B_NC12	2.06807329	.17548089	11.785	.0000
B_NC22	1.80524428	.17083581	10.567	.0000
B_NC32	1.08442824	.18950676	5.722	.0000
B_R12	.69066571	.11566041	5.971	.0000
B_R22	.47777011	.07240561	6.599	.0000
B_R32	.38540724	.07048888	5.468	.0000
B_R42	.31457181	.07679879	4.096	.0000
B_SX2	.51481347	.04784238	10.761	.0000
B_ID22	1.99686226	.14346219	13.919	.0000
B_ID32	1.96706391	.14510069	13.557	.0000
B_ID42	1.95889624	.13995866	13.996	.0000
B_ID52	2.30518130	.15316849	15.050	.0000
B_IN12	.06904780	.16823917	.410	.6815
B_IN22	.33209236	.07595154	4.372	.0000
B_IN32	.32788301	.07645109	4.289	.0000
B_LC2	-1.73066550	.06232971	-27.766	.0000

B_P132	1.19721872	.06819108	17.557	.0000
B_P332	.13538025	.22934132	.590	.5550
B_P122	1.02592251	.08280203	12.390	.0000
B_P222	.64457720	.06905847	9.334	.0000
B_P322	.03241589	.16372200	.198	.8431
B_P212	.14190259	.16362782	.867	.3858
B_P312	.18764734	.10433951	1.798	.0721
A_BO	-5.27704665	1.13451137	-4.651	.0000
BO_NC03	2.97053965	1.05004265	2.829	.0047
BO_NC13	2.48111740	1.03722909	2.392	.0168
BO_NC23	1.34167238	1.03498837	1.296	.1949
BO_NC33	1.99686592	1.05349631	1.895	.0580
BO_R13	.82024331	.46897180	1.749	.0803
BO_R23	-.20673941	.33488773	-.617	.5370
BO_R33	-.01149511	.31017451	-.037	.9704
BO_R43	-.00153540	.33086495	-.005	.9963
BO_SX3	.53695918	.21429442	2.506	.0122
BO_ID23	-.64398348	.35033333	-1.838	.0660
BO_ID33	-1.07401793	.43462261	-2.471	.0135
BO_ID43	-1.08687512	.37335075	-2.911	.0036
BO_ID53	-1.10448572	.51602956	-2.140	.0323
BO_IN13	.78314602	.57401690	1.364	.1725
BO_IN23	1.01015079	.45831378	2.204	.0275
BO_IN33	.15660876	.49830547	.314	.7533
BO_LC3	-.85839390	.32554053	-2.637	.0084
BO_P133	-1.03899991	.33653968	-3.087	.0020
BO_P333	-29.6289391	.215866D+07	.000	1.0000
BO_P123	.24407046	.28379272	.860	.3898
BO_P223	-1.31479261	.32479870	-4.048	.0001
BO_P323	-.22659671	.54291472	-.417	.6764
BO_P213	-30.9120516	.211343D+07	.000	1.0000
BO_P313	-.80431995	.41919237	-1.919	.0550
A_M	-6.65856040	1.03626776	-6.426	.0000
M_NC04	3.45954799	.61497748	5.625	.0000
M_NC14	1.56310701	.62597983	2.497	.0125
M_NC24	.84800342	.61686367	1.375	.1692
M_NC34	.70673721	.67507090	1.047	.2951
M_R14	-1.25351410	.43848172	-2.859	.0043
M_R24	.05570284	.24859591	.224	.8227
M_R34	-.99165706	.30146160	-3.289	.0010
M_R44	-.81480394	.35521101	-2.294	.0218
M_SX4	-1.75912240	.24729178	-7.114	.0000
M_ID24	2.18371370	.81339250	2.685	.0073
M_ID34	3.01077209	.81230730	3.706	.0002
M_ID44	1.68299572	.82091943	2.050	.0404
M_ID54	.63048731	.98743595	.639	.5231
M_IN14	-.34949941	1.17246119	-.298	.7656
M_IN24	.59539417	.34134264	1.744	.0811
M_IN34	.66858178	.33666919	1.986	.0470
M_LC4	-1.40857492	.21279794	-6.619	.0000
M_P134	.51273987	.26092716	1.965	.0494
M_P334	-31.8035922	.732932D+07	.000	1.0000
M_P124	.26570641	.32210111	.825	.4094
M_P224	.34847603	.25344457	1.375	.1691
M_P324	.68934511	.47645491	1.447	.1479
M_P214	.66693426	.42252421	1.578	.1145
M_P314	-.48181512	.49888632	-.966	.3342

A_P	-3.05210926	.18666656	-16.351	.0000
P_NC05	2.88488332	.12265534	23.520	.0000
P_NC15	.81990811	.12411947	6.606	.0000
P_NC25	.41721481	.11711293	3.562	.0004
P_NC35	.02407234	.14538983	.166	.8685
P_R15	.92978050	.11757235	7.908	.0000
P_R25	.67184275	.07591913	8.849	.0000
P_R35	.24926977	.07663519	3.253	.0011
P_R45	.39000267	.08166404	4.776	.0000
P_SX5	.41313232	.04966901	8.318	.0000
P_ID25	1.47507106	.13550252	10.886	.0000
P_ID35	1.01186658	.13909332	7.275	.0000
P_ID45	1.18331619	.13257422	8.926	.0000
P_ID55	1.50279576	.14717525	10.211	.0000
P_IN15	-.08451991	.16855198	-.501	.6161
P_IN25	.15487077	.08035894	1.927	.0540
P_IN35	.25055581	.08023788	3.123	.0018
P_LC5	-1.58243561	.06584117	-24.034	.0000
P_P135	.72002714	.07247461	9.935	.0000
P_P335	2.30386425	.17509495	13.158	.0000
P_P125	1.11612307	.08415569	13.263	.0000
P_P225	.46562619	.07214370	6.454	.0000
P_P325	1.58019677	.13688593	11.544	.0000
P_P215	-.93473088	.21728077	-4.302	.0000
P_P315	.56647382	.10211168	5.548	.0000

MNL6.8 – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Lc - Var. binária de disponibilidade de Licença de condução (Lc)
- NCia - Var. binária nº auto disponíveis diariamente no agregado per capita (expto NC4a).

- PO: variável continua inicial nº de lugares pagos / nº total de estacionamentos
- OV: variável continua inicial oferta total de estacion. / total de viagens extrapoladas

```
DISCRETECHOICE
;Lhs=MTRP
;Choices=Bp,B,Bo,M,P,A[1]
;Rh2=ONE,NC0,NC1,NC2,NC3,LC,PO,OV$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 09, 2012 at 00:01:09PM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                  8     |
| Log likelihood function       -19328.16     |
| Number of parameters                 40     |
| Info. Criterion: AIC =          2.05793     |
|   Finite Sample: AIC =          2.05793     |
| Info. Criterion: BIC =          2.07459     |
| Info. Criterion:HQIC =          2.06339     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .19204  .19169 |
| Chi-squared[35]          =   9187.75505     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
+---------------------------------------------+

+---------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).      |
|       Constants only => P(i,j) uses ASCs    |
|         only. N(j)/N if fixed choice set.   |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.      |
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
+---------------------------------------------+
+--------+--------------+----------------+--------+--------+
|Variable| Coefficient  | Standard Error |b/St.Er.|P[|Z|>z]|
+--------+--------------+----------------+--------+--------+
 A_BP    |   -4.88258099      1.02563140    -4.761   .0000
```

BP_NC01	5.62128698	1.00454669	5.596	.0000
BP_NC11	3.47521768	1.00740524	3.450	.0006
BP_NC21	2.99869239	1.00600466	2.981	.0029
BP_NC31	1.75313160	1.05082531	1.668	.0952
BP_LC1	-1.83313867	.09629807	-19.036	.0000
BP_PO1	.68103962	.19893621	3.423	.0006
BP_OV1	-4.91609200	1.47849892	-3.325	.0009
A_B	-1.23621065	.19921704	-6.205	.0000
B_NC02	4.22290804	.17131713	24.650	.0000
B_NC12	2.01647608	.17122720	11.777	.0000
B_NC22	1.73621066	.16794079	10.338	.0000
B_NC32	.90548512	.18575708	4.875	.0000
B_LC2	-1.68023091	.04661286	-36.047	.0000
B_PO2	.79666587	.10342212	7.703	.0000
B_OV2	-6.49859933	.73834554	-8.802	.0000
A_BO	-4.67124963	1.13000007	-4.134	.0000
BO_NC03	3.06110054	1.03217046	2.966	.0030
BO_NC13	2.51030672	1.02568214	2.447	.0144
BO_NC23	1.41523669	1.02799895	1.377	.1686
BO_NC33	1.99403364	1.04587813	1.907	.0566
BO_LC3	-1.75049622	.22750534	-7.694	.0000
BO_PO3	-1.45816424	.58616730	-2.488	.0129
BO_OV3	-1.01973549	3.05222512	-.334	.7383
A_M	-4.44550982	.71437420	-6.223	.0000
M_NC04	3.48567174	.59696435	5.839	.0000
M_NC14	1.55610574	.61528946	2.529	.0114
M_NC24	.84606518	.61065271	1.386	.1659
M_NC34	.81989717	.66936465	1.225	.2206
M_LC4	-.86831775	.17144626	-5.065	.0000
M_PO4	.03278718	.38775999	.085	.9326
M_OV4	-4.24070409	2.68595573	-1.579	.1144
A_P	-.22092259	.15607682	-1.415	.1569
P_NC05	3.13611157	.11569474	27.107	.0000
P_NC15	.78758656	.11677738	6.744	.0000
P_NC25	.33553542	.11210304	2.993	.0028
P_NC35	-.26146092	.14008344	-1.866	.0620
P_LC5	-1.63405216	.04864995	-33.588	.0000
P_PO5	.25011965	.10813117	2.313	.0207
P_OV5	-4.45353422	.74148837	-6.006	.0000

MNL6.9 – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Idi - Var. binária escalão etário (expto Id1)
- Ini - Var. binária nível de instrução (expto In4)
- Sexo - Var. binária Sexo
- Ri - Var. binária escalões do rend. Liquí. mensal do agreg (expto R5)
- Lc - Var. binária de disponibilidade de Licença de condução (Lc)
- NCia - Var. binária nº auto disponíveis diariamente no agregado per capita (expto NC4a).

- PO: variável continua inicial nº de lugares pagos / nº total de estacionamentos
- OV: variável continua inicial oferta total de estacion. / total de viagens extrapoladas

```
DISCRETECHOICE
;Lhs=MTRP
;Choices=Bp,B,Bo,M,P,A[1]
;Rh2=ONE, NC0,NC1,NC2,NC3, R1,R2,R3,R4 ,SX ,ID2,ID3,ID4,ID5 ,IN1,IN2,IN3,
LC, PO,OV$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 09, 2012 at 00:08:15PM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                  8     |
| Log likelihood function       -18707.01     |
| Number of parameters                100     |
| Info. Criterion: AIC =          1.99830     |
|   Finite Sample: AIC =          1.99836     |
| Info. Criterion: BIC =          2.03997     |
| Info. Criterion:HQIC =          2.01197     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .21800  .21717 |
| Chi-squared[95]          =  10430.05465     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
+---------------------------------------------+

+---------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).      |
|       Constants only => P(i,j) uses ASCs    |
|         only. N(j)/N if fixed choice set.   |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.      |
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
```

Variable	Coefficient	Standard Error	b/St.Er.	P[|Z|>z]
A_BP	-8.35743294	1.08691895	-7.689	.0000
BP_NC01	5.19320348	1.00633556	5.161	.0000
BP_NC11	3.20272301	1.00956037	3.172	.0015
BP_NC21	2.84486858	1.00741712	2.824	.0047
BP_NC31	1.84350848	1.05302205	1.751	.0800
BP_R11	.92120100	.23129955	3.983	.0001
BP_R21	1.03901429	.19260468	5.395	.0000
BP_R31	1.02752799	.19228903	5.344	.0000
BP_R41	.93253862	.21049070	4.430	.0000
BP_SX1	.55849301	.09429832	5.923	.0000
BP_ID21	1.75241344	.28916150	6.060	.0000
BP_ID31	1.78756310	.29105612	6.142	.0000
BP_ID41	1.75746291	.28092047	6.256	.0000
BP_ID51	2.02189333	.29605032	6.830	.0000
BP_IN11	.42051288	.36052993	1.166	.2435
BP_IN21	1.02425197	.22730917	4.506	.0000
BP_IN31	.94286555	.23349524	4.038	.0001
BP_LC1	-1.80549861	.11467402	-15.745	.0000
BP_PO1	.61783534	.20206535	3.058	.0022
BP_OV1	-4.22667326	1.49055195	-2.836	.0046
A_B	-3.94825525	.24944148	-15.828	.0000
B_NC02	4.01646121	.17502662	22.948	.0000
B_NC12	2.05044755	.17524912	11.700	.0000
B_NC22	1.78672263	.17065533	10.470	.0000
B_NC32	1.07734721	.18932643	5.690	.0000
B_R12	.67669488	.11506982	5.881	.0000
B_R22	.47536623	.07206729	6.596	.0000
B_R32	.37327361	.07028444	5.311	.0000
B_R42	.30577535	.07664300	3.990	.0001
B_SX2	.50491994	.04766460	10.593	.0000
B_ID22	1.98944182	.14258663	13.953	.0000
B_ID32	1.96889243	.14421091	13.653	.0000
B_ID42	1.97468511	.13906206	14.200	.0000
B_ID52	2.32152696	.15201561	15.272	.0000
B_IN12	.05596664	.16719909	.335	.7378
B_IN22	.32581854	.07585247	4.295	.0000
B_IN32	.32936713	.07619760	4.323	.0000
B_LC2	-1.72720337	.06218277	-27.776	.0000
B_PO2	.72056074	.10635027	6.775	.0000
B_OV2	-6.12625827	.75694103	-8.093	.0000
A_BO	-5.28279733	1.23819136	-4.267	.0000
BO_NC03	2.89906193	1.04862369	2.765	.0057
BO_NC13	2.43291119	1.03666512	2.347	.0189
BO_NC23	1.29704926	1.03475091	1.253	.2100
BO_NC33	1.94158204	1.05270639	1.844	.0651
BO_R13	.67559246	.46320229	1.459	.1447
BO_R23	-.28269783	.33106777	-.854	.3932
BO_R33	-.10182342	.30894784	-.330	.7417
BO_R43	-.10147315	.32842205	-.309	.7573
BO_SX3	.48890489	.21416855	2.283	.0224
BO_ID23	-.59303810	.34694938	-1.709	.0874
BO_ID33	-.89420369	.42962126	-2.081	.0374
BO_ID43	-.91900268	.36650931	-2.507	.0122

BO_ID53	-.88445991	.50714881	-1.744	.0812
BO_IN13	.84569505	.57143385	1.480	.1389
BO_IN23	.96731461	.45793473	2.112	.0347
BO_IN33	.13946163	.49674564	.281	.7789
BO_LC3	-.88075837	.32432034	-2.716	.0066
BO_PO3	-1.33978088	.58016492	-2.309	.0209
BO_OV3	-.41921702	3.05726899	-.137	.8909
A_M	-6.31342190	1.09887998	-5.745	.0000
M_NC04	3.45880397	.61427997	5.631	.0000
M_NC14	1.54820956	.62564025	2.475	.0133
M_NC24	.82949000	.61661934	1.345	.1786
M_NC34	.67880232	.67439998	1.007	.3142
M_R14	-1.26167430	.43735828	-2.885	.0039
M_R24	.04383229	.24664074	.178	.8589
M_R34	-.99651017	.30093793	-3.311	.0009
M_R44	-.82163311	.35439052	-2.318	.0204
M_SX4	-1.77360687	.24705962	-7.179	.0000
M_ID24	2.28036813	.81385519	2.802	.0051
M_ID34	3.05952060	.81349564	3.761	.0002
M_ID44	1.74658030	.82118767	2.127	.0334
M_ID54	.64318079	.98600989	.652	.5142
M_IN14	-.21116940	1.17035091	-.180	.8568
M_IN24	.63119290	.34094661	1.851	.0641
M_IN34	.70102751	.33631420	2.084	.0371
M_LC4	-1.40055407	.21237725	-6.595	.0000
M_PO4	.26931282	.39165682	.688	.4917
M_OV4	-2.61206550	2.63292553	-.992	.3212
A_P	-2.02760542	.21038709	-9.637	.0000
P_NC05	2.90028824	.12134369	23.901	.0000
P_NC15	.83782055	.12274440	6.826	.0000
P_NC25	.40401701	.11600633	3.483	.0005
P_NC35	-.04137481	.14450657	-.286	.7746
P_R15	.94403137	.11590875	8.145	.0000
P_R25	.67090192	.07441216	9.016	.0000
P_R35	.22479264	.07525976	2.987	.0028
P_R45	.34649040	.08027924	4.316	.0000
P_SX5	.39629125	.04899179	8.089	.0000
P_ID25	1.45347444	.13237997	10.980	.0000
P_ID35	.94812035	.13604050	6.969	.0000
P_ID45	1.13124637	.12960032	8.729	.0000
P_ID55	1.43522835	.14413539	9.958	.0000
P_IN15	-.20010705	.16546529	-1.209	.2265
P_IN25	.09381186	.07900946	1.187	.2351
P_IN35	.18279457	.07901452	2.313	.0207
P_LC5	-1.57780832	.06500869	-24.271	.0000
P_PO5	.24526687	.11064299	2.217	.0266
P_OV5	-4.10144867	.75694403	-5.418	.0000

MNL6.6a – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Lc - Var. binária de disponibilidade de Licença de condução (Lc)

- NC: Variável continua Nº total de automóveis ligeiros à disposição diária do agregado per capita (FNAUTODiario/NInd)

- Razão entre Oferta de Estacionamento pago/Total de oferta de estacionamentos (PO) e entre a Oferta total de estacionamento/Procura Total extrapolada (OV)

P13 Variável binária OV1=1 & PO3=1
P33 Variável binária OV3=1 & PO3=1
P12 Variável binária OV1=1 & PO2=1
P22 Variável binária OV2=1 & PO2=1
P32 Variável binária OV3=1 & PO2=1
P21 Variável binária OV2=1 & PO2=1
P31 Variável binária OV3=1 & PO1=1
P41 Variável binária OV4=1 & PO1=1 (excluída)

```
DISCRETECHOICE
;Lhs=MTRP
;Choices=Bp,B,Bo,M,P,A[1]
;Rh2=ONE,NC,LC,P13,P33,P12,P22,P32,P21,P31$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 15, 2012 at 04:05:19PM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                 31     |
| Log likelihood function       -19260.83     |
| Number of parameters                 50     |
| Info. Criterion: AIC =          2.05183     |
|   Finite Sample: AIC =          2.05185     |
| Info. Criterion: BIC =          2.07267     |
| Info. Criterion:HQIC =          2.05867     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .19485  .19442 |
| Chi-squared[45]          =   9322.42601     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
+---------------------------------------------+

+---------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).      |
|       Constants only => P(i,j) uses ASCs    |
```

```
|         only. N(j)/N if fixed choice set.   |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.      |
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
+---------------------------------------------+
```

Variable	Coefficient	Standard Error	b/St.Er.	P[|Z|>z]
A_BP	-.71585654	.12414717	-5.766	.0000
BP_NC1	-4.86751176	.23085589	-21.085	.0000
BP_LC1	-1.75156230	.09617613	-18.212	.0000
BP_P131	1.07934537	.13881191	7.776	.0000
BP_P331	1.32804818	.33251664	3.994	.0001
BP_P121	1.04318879	.16294091	6.402	.0000
BP_P221	.69106168	.14046199	4.920	.0000
BP_P321	.13850254	.32105989	.431	.6662
BP_P211	-1.30972370	.60005858	-2.183	.0291
BP_P311	.48309461	.19558218	2.470	.0135
A_B	1.37827139	.06036597	22.832	.0000
B_NC2	-4.38998868	.09826736	-44.674	.0000
B_LC2	-1.59247535	.04576342	-34.798	.0000
B_P132	1.28987031	.06492411	19.867	.0000
B_P332	.18731735	.22901903	.818	.4134
B_P122	1.06538012	.07982916	13.346	.0000
B_P222	.65334554	.06585679	9.921	.0000
B_P322	-.06299225	.16044566	-.393	.6946
B_P212	.15210080	.15409319	.987	.3236
B_P312	.16939768	.09904715	1.710	.0872
A_BO	-1.96272703	.20107818	-9.761	.0000
BO_NC3	-2.20314954	.43332291	-5.084	.0000
BO_LC3	-1.78563512	.22885179	-7.803	.0000
BO_P133	-.99408627	.33024087	-3.010	.0026
BO_P333	-30.2035923	.295617D+07	.000	1.0000
BO_P123	.28319156	.27710367	1.022	.3068
BO_P223	-1.17520870	.31958150	-3.677	.0002
BO_P323	-.13667806	.53570595	-.255	.7986
BO_P213	-31.2198889	.270848D+07	.000	1.0000
BO_P313	-.66310811	.41275313	-1.607	.1082
A_M	-2.38121528	.22397024	-10.632	.0000
M_NC4	-3.89754809	.39493807	-9.869	.0000
M_LC4	-.78606647	.17072811	-4.604	.0000
M_P134	.53312651	.25408357	2.098	.0359
M_P334	-29.5556684	.241089D+07	.000	1.0000
M_P124	.44704117	.31613506	1.414	.1573
M_P224	.45211941	.24807662	1.822	.0684
M_P324	.68036692	.46562173	1.461	.1440
M_P214	.99829369	.39990026	2.496	.0125
M_P314	-.55603369	.49182324	-1.131	.2582
A_P	1.20853697	.06254813	19.322	.0000
P_NC5	-4.45344782	.10452650	-42.606	.0000
P_LC5	-1.51223736	.04790619	-31.567	.0000
P_P135	.78710926	.06935028	11.350	.0000
P_P335	2.37276846	.17529593	13.536	.0000

P_P125	1.14938803	.08149697	14.103	.0000
P_P225	.49417428	.06905176	7.157	.0000
P_P325	1.55940852	.13240650	11.777	.0000
P_P215	-.88957164	.20926956	-4.251	.0000
P_P315	.57509120	.09635554	5.968	.0000

MNL6.7a – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Idi - Var. binária escalão etário (expto Id1)
- Ini - Var. binária nível de instrução (expto In4)
- Sexo - Var. binária Sexo
- Ri - Var. binária escalões do rend. Liquí. mensal do agreg (expto R5)
- Lc - Var. binária de disponibilidade de Licença de condução (Lc)
- NC - Variável continua Nº total de automóveis ligeiros à disposição diária do agregado per capita (FNAUTODiario/NInd)

- Razão entre Oferta de Estacionamento pago/Total de oferta de estacionamentos (PO) e entre a Oferta total de estacionamento/Procura Total extrapolada (OV)

P13 Variável binária OV1=1 & PO3=1
P33 Variável binária OV3=1 & PO3=1
P12 Variável binária OV1=1 & PO2=1
P22 Variável binária OV2=1 & PO2=1
P32 Variável binária OV3=1 & PO2=1
P21 Variável binária OV2=1 & PO2=1
P31 Variável binária OV3=1 & PO1=1
P41 Variável binária OV4=1 & PO1=1 (excluída)

```
DISCRETECHOICE
;Lhs=MTRP
;Choices=Bp,B,Bo,M,P,A[1]
;Rh2=ONE,NC,R1,R2,R3,R4,SX,ID2,ID3,ID4,ID5,IN1,IN2,IN3,LC,P13,P33,P12,P22
,P32,P21,P31$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 15, 2012 at 04:22:21PM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                 34     |
| Log likelihood function       -18525.17     |
| Number of parameters                110     |
| Info. Criterion: AIC =          1.98004     |
|   Finite Sample: AIC =          1.98011     |
| Info. Criterion: BIC =          2.02588     |
| Info. Criterion:HQIC =          1.99508     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .22560  .22470 |
| Chi-squared[**]          =  10793.74867     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
+---------------------------------------------+
```

```
+---------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).      |
|       Constants only => P(i,j) uses ASCs    |
|         only. N(j)/N if fixed choice set.   |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.      |
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
+---------------------------------------------+
```

Variable	Coefficient	Standard Error	b/St.Er.	P[|Z|>z]
A_BP	-4.43951629	.40001937	-11.098	.0000
BP_NC1	-4.28434105	.25668588	-16.691	.0000
BP_R11	1.35006764	.22893113	5.897	.0000
BP_R21	1.05827991	.19298730	5.484	.0000
BP_R31	.95292692	.19238301	4.953	.0000
BP_R41	.81466339	.21036116	3.873	.0001
BP_SX1	.58010781	.09411888	6.164	.0000
BP_ID21	1.76373848	.28807841	6.122	.0000
BP_ID31	1.84389795	.28982866	6.362	.0000
BP_ID41	1.81407660	.27961033	6.488	.0000
BP_ID51	2.26083328	.29530753	7.656	.0000
BP_IN11	.32883041	.35945789	.915	.3603
BP_IN21	.93754588	.22716825	4.127	.0000
BP_IN31	.88133505	.23356241	3.773	.0002
BP_LC1	-1.76190200	.11446855	-15.392	.0000
BP_P131	.93130255	.14059523	6.624	.0000
BP_P331	1.30682986	.33615934	3.888	.0001
BP_P121	.94267868	.16489147	5.717	.0000
BP_P221	.60922429	.14239669	4.278	.0000
BP_P321	.13027955	.32429610	.402	.6879
BP_P211	-1.36652362	.60151645	-2.272	.0231
BP_P311	.37961424	.19836092	1.914	.0557
A_B	-1.41319119	.16470285	-8.580	.0000
B_NC2	-3.86176274	.10832476	-35.650	.0000
B_R12	1.15133208	.11053833	10.416	.0000
B_R22	.51386612	.07191038	7.146	.0000
B_R32	.30302990	.07028341	4.312	.0000
B_R42	.17822231	.07704987	2.313	.0207
B_SX2	.53475145	.04737549	11.288	.0000
B_ID22	1.98411232	.14109528	14.062	.0000
B_ID32	2.00681143	.14227800	14.105	.0000
B_ID42	2.01043632	.13708866	14.665	.0000
B_ID52	2.54317730	.15080624	16.864	.0000
B_IN12	-.05904874	.16519940	-.357	.7208
B_IN22	.23159373	.07535219	3.073	.0021
B_IN32	.27261032	.07627813	3.574	.0004
B_LC2	-1.68045279	.06158963	-27.285	.0000
B_P132	1.18045484	.06757192	17.470	.0000
B_P332	.16183459	.23250870	.696	.4864
B_P122	1.00106071	.08251857	12.131	.0000
B_P222	.62006614	.06834237	9.073	.0000
B_P322	-.04174734	.16288464	-.256	.7977

B_P212	.19026254	.15728512	1.210	.2264
B_P312	.11536614	.10325756	1.117	.2639
A_BO	-2.40031589	.60606448	-3.960	.0001
BO_NC3	-2.48730381	.54416633	-4.571	.0000
BO_R13	.78402818	.42873573	1.829	.0674
BO_R23	-.36734440	.33285954	-1.104	.2698
BO_R33	-.05845522	.31069062	-.188	.8508
BO_R43	-.04775222	.32600243	-.146	.8835
BO_SX3	.54942340	.21352626	2.573	.0101
BO_ID23	-.64081429	.35080692	-1.827	.0677
BO_ID33	-1.07455313	.43452627	-2.473	.0134
BO_ID43	-1.12049607	.37388711	-2.997	.0027
BO_ID53	-1.05215102	.51314288	-2.050	.0403
BO_IN13	.72960879	.57070630	1.278	.2011
BO_IN23	.97631732	.45564733	2.143	.0321
BO_IN33	.17387923	.49801100	.349	.7270
BO_LC3	-.83910111	.32521026	-2.580	.0099
BO_P133	-.98405594	.33664079	-2.923	.0035
BO_P333	-29.7573307	.226871D+07	.000	1.0000
BO_P123	.29887607	.28297640	1.056	.2909
BO_P223	-1.28285142	.32453087	-3.953	.0001
BO_P323	-.21670458	.54258334	-.399	.6896
BO_P213	-31.0711189	.227061D+07	.000	1.0000
BO_P313	-.74647848	.41812084	-1.785	.0742
A_M	-3.88386676	.89415485	-4.344	.0000
M_NC4	-3.87994609	.46046095	-8.426	.0000
M_R14	-.74321001	.43299373	-1.716	.0861
M_R24	.12327139	.24296545	.507	.6119
M_R34	-1.04145787	.29826297	-3.492	.0005
M_R44	-.92364172	.35375371	-2.611	.0090
M_SX4	-1.75850523	.24720902	-7.113	.0000
M_ID24	2.18086699	.81778884	2.667	.0077
M_ID34	3.08849456	.81683427	3.781	.0002
M_ID44	1.76645700	.82532440	2.140	.0323
M_ID54	.90960945	.98967933	.919	.3580
M_IN14	-.45751695	1.17739730	-.389	.6976
M_IN24	.49521420	.34084549	1.453	.1463
M_IN34	.62218055	.33708144	1.846	.0649
M_LC4	-1.37660109	.21245601	-6.479	.0000
M_P134	.51571011	.26033563	1.981	.0476
M_P334	-31.7362427	.731358D+07	.000	1.0000
M_P124	.27822441	.32170400	.865	.3871
M_P224	.37808055	.25266738	1.496	.1346
M_P324	.65163087	.47612942	1.369	.1711
M_P214	.75840196	.41667330	1.820	.0687
M_P314	-.50095682	.49849162	-1.005	.3149
A_P	-.82348149	.16012475	-5.143	.0000
P_NC5	-3.72857325	.11405106	-32.692	.0000
P_R15	1.50585722	.11309328	13.315	.0000
P_R25	.77348104	.07526193	10.277	.0000
P_R35	.19772650	.07613371	2.597	.0094
P_R45	.25116618	.08180320	3.070	.0021
P_SX5	.43190455	.04912063	8.793	.0000
P_ID25	1.45585759	.13197180	11.032	.0000
P_ID35	1.07358575	.13517993	7.942	.0000
P_ID45	1.25268918	.12856203	9.744	.0000
P_ID55	1.76951271	.14379632	12.306	.0000

P_IN15	-.25946434	.16466853	-1.576	.1151
P_IN25	.01015488	.07962947	.128	.8985
P_IN35	.15667647	.08042393	1.948	.0514
P_LC5	-1.52301740	.06479253	-23.506	.0000
P_P135	.70363528	.07167883	9.817	.0000
P_P335	2.33618028	.17912657	13.042	.0000
P_P125	1.09520736	.08378452	13.072	.0000
P_P225	.45073716	.07123061	6.328	.0000
P_P325	1.52282832	.13535974	11.250	.0000
P_P215	-.87887432	.21114766	-4.162	.0000
P_P315	.48594807	.10042152	4.839	.0000

MNL6.7b – Combinação de Variáveis socioeconómicas e sobre estacionamento

- ASC

- Idi - Var. binária escalão etário (expto Id1)
- Ini - Var. binária nível de instrução (expto In4)
- Sexo - Var. binária Sexo
- Ri - Var. binária escalões do rend. Liquí. mensal do agreg (expto R5)
- Lc - Var. binária de disponibilidade de Licença de condução (Lc)
- NC0 - Variável binária Nº total de automóveis ligeiros à disposição diária do agregado per capita =0
- *NC1a - Variável binária Nº total de automóveis ligeiros à disposição diária do agregado per capita >0 (excluída)*

- Razão entre Oferta de Estacionamento pago/Total de oferta de estacionamentos (PO) e entre a Oferta total de estacionamento/Procura Total extrapolada (OV)

P13 Variável binária OV1=1 & PO3=1
P33 Variável binária OV3=1 & PO3=1
P12 Variável binária OV1=1 & PO2=1
P22 Variável binária OV2=1 & PO2=1
P32 Variável binária OV3=1 & PO2=1
P21 Variável binária OV2=1 & PO2=1
P31 Variável binária OV3=1 & PO1=1
P41 Variável binária OV4=1 & PO1=1 (excluída)

```
DISCRETECHOICE;Lhs=MTRP;Choices=Bp,B,Bo,M,P,A[1];
;Rh2=ONE,NC0,R1,R2,R3,R4,SX,ID2,ID3,ID4,ID5,IN1,IN2,IN3,LC,P13,P33,P12,P2
2,P32,P21,P31$
+---------------------------------------------+
| Discrete choice and multinomial logit models|
+---------------------------------------------+
Normal exit from iterations. Exit status=0.
+---------------------------------------------+
| Discrete choice (multinomial logit) model   |
| Maximum Likelihood Estimates                |
| Model estimated: Jan 16, 2012 at 01:05:07PM.|
| Dependent variable               Choice     |
| Weighting variable                 None     |
| Number of observations            18823     |
| Iterations completed                 34     |
| Log likelihood function       -18478.13     |
| Number of parameters                110     |
| Info. Criterion: AIC =          1.97504     |
|   Finite Sample: AIC =          1.97511     |
| Info. Criterion: BIC =          2.02088     |
| Info. Criterion:HQIC =          1.99008     |
| R2=1-LogL/LogL*  Log-L fncn  R-sqrd  RsqAdj |
| Constants only  -23922.0417  .22757  .22666 |
| Chi-squared[**]          =  10887.81968     |
| Prob [ chi squared > value ] =   .00000     |
| Response data are given as ind. choice.     |
| Number of obs.= 95426, skipped**** bad obs. |
```

```
+--------------------------------------------+

+--------------------------------------------+
| Notes No coefficients=> P(i,j)=1/J(i).     |
|       Constants only => P(i,j) uses ASCs   |
|         only. N(j)/N if fixed choice set.  |
|         N(j) = total sample frequency for j |
|         N    = total sample frequency.     |
|       These 2 models are simple MNL models. |
|       R-sqrd = 1 - LogL(model)/logL(other)  |
|       RsqAdj=1-[nJ/(nJ-nparm)]*(1-R-sqrd)   |
|         nJ   = sum over i, choice set sizes |
+--------------------------------------------+
+--------+--------------+----------------+--------+--------+
|Variable| Coefficient  | Standard Error |b/St.Er.|P[|Z|>z]|
+--------+--------------+----------------+--------+--------+
 A_BP     |   -6.53744425       .39271759   -16.647   .0000
 BP_NC01  |    2.43282663       .10747992    22.635   .0000
 BP_R11   |     .95431873       .22896358     4.168   .0000
 BP_R21   |    1.21307278       .19101980     6.351   .0000
 BP_R31   |    1.24892536       .19009176     6.570   .0000
 BP_R41   |    1.13717882       .20850675     5.454   .0000
 BP_SX1   |     .52212383       .09406959     5.550   .0000
 BP_ID21  |    1.82147127       .29002909     6.280   .0000
 BP_ID31  |    1.78411204       .29187174     6.113   .0000
 BP_ID41  |    1.75607086       .28177015     6.232   .0000
 BP_ID51  |    1.95826580       .29685967     6.597   .0000
 BP_IN11  |     .62654460       .36097844     1.736   .0826
 BP_IN21  |    1.18616560       .22690448     5.228   .0000
 BP_IN31  |    1.01712653       .23266248     4.372   .0000
 BP_LC1   |   -1.94031458       .11460828   -16.930   .0000
 BP_P131  |    1.00342104       .14044214     7.145   .0000
 BP_P331  |    1.34643091       .33273116     4.047   .0001
 BP_P121  |    1.02316603       .16435577     6.225   .0000
 BP_P221  |     .69390088       .14218403     4.880   .0000
 BP_P321  |     .28900033       .32444864      .891   .3731
 BP_P211  |   -1.42676794       .60337163    -2.365   .0180
 BP_P311  |     .52733498       .19866354     2.654   .0079
 A_B      |   -3.33440899       .16172380   -20.618   .0000
 B_NC02   |    2.34657724       .06300800    37.243   .0000
 B_R12    |     .69169761       .11184737     6.184   .0000
 B_R22    |     .61492757       .07006579     8.776   .0000
 B_R32    |     .55314214       .06812672     8.119   .0000
 B_R42    |     .45904634       .07483914     6.134   .0000
 B_SX2    |     .47853103       .04719915    10.139   .0000
 B_ID22   |    2.04591104       .14379401    14.228   .0000
 B_ID32   |    1.94291710       .14507340    13.393   .0000
 B_ID42   |    1.95996057       .14022657    13.977   .0000
 B_ID52   |    2.24234750       .15258120    14.696   .0000
 B_IN12   |     .21395586       .16740484     1.278   .2012
 B_IN22   |     .45579831       .07424883     6.139   .0000
 B_IN32   |     .39301884       .07441154     5.282   .0000
 B_LC2    |   -1.85202450       .06165646   -30.038   .0000
 B_P132   |    1.24929982       .06724630    18.578   .0000
 B_P332   |     .19080589       .22745453      .839   .4015
 B_P122   |    1.07431665       .08148017    13.185   .0000
 B_P222   |     .69895786       .06806087    10.270   .0000
```

B_P322	.10360330	.16299751	.636	.5250
B_P212	.14544405	.16396050	.887	.3750
B_P312	.26040018	.10374303	2.510	.0121
A_BO	-3.65342316	.55177930	-6.621	.0000
BO_NC03	1.19332901	.29680434	4.021	.0001
BO_R13	.79846207	.45170098	1.768	.0771
BO_R23	-.06416244	.32179439	-.199	.8420
BO_R33	.23132816	.29937694	.773	.4397
BO_R43	.17961577	.32083610	.560	.5756
BO_SX3	.46263796	.21304470	2.172	.0299
BO_ID23	-.62985816	.35018525	-1.799	.0721
BO_ID33	-1.09426791	.43656827	-2.507	.0122
BO_ID43	-1.11406332	.37448158	-2.975	.0029
BO_ID53	-1.23865168	.51518774	-2.404	.0162
BO_IN13	.90860637	.57037351	1.593	.1112
BO_IN23	1.15597479	.45457035	2.543	.0110
BO_IN33	.24506120	.49644081	.494	.6216
BO_LC3	-1.02872960	.32415148	-3.174	.0015
BO_P133	-.91111029	.33595377	-2.712	.0067
BO_P333	-29.7978556	.239108D+07	.000	1.0000
BO_P123	.36582883	.28171434	1.299	.1941
BO_P223	-1.18617432	.32300428	-3.672	.0002
BO_P323	-.06577973	.54058084	-.122	.9031
BO_P213	-31.0411679	.224720D+07	.000	1.0000
BO_P313	-.66869242	.41743285	-1.602	.1092
A_M	-5.79724853	.87149727	-6.652	.0000
M_NC04	2.45644667	.20290567	12.106	.0000
M_R14	-1.23318907	.43489087	-2.836	.0046
M_R24	.19781094	.24244039	.816	.4145
M_R34	-.78759611	.29494375	-2.670	.0076
M_R44	-.65980934	.35164065	-1.876	.0606
M_SX4	-1.80153105	.24709793	-7.291	.0000
M_ID24	2.24385724	.81301546	2.760	.0058
M_ID34	2.99481049	.81188105	3.689	.0002
M_ID44	1.70161281	.82031643	2.074	.0380
M_ID54	.56658926	.98679631	.574	.5659
M_IN14	-.20772942	1.17196768	-.177	.8593
M_IN24	.69998025	.33984954	2.060	.0394
M_IN34	.71477727	.33504754	2.133	.0329
M_LC4	-1.53805167	.21253369	-7.237	.0000
M_P134	.56804190	.26059421	2.180	.0293
M_P334	-31.7756481	.737510D+07	.000	1.0000
M_P124	.31962614	.32172179	.993	.3205
M_P224	.41640194	.25242358	1.650	.0990
M_P324	.76422838	.47599987	1.606	.1084
M_P214	.65284028	.42145988	1.549	.1214
M_P314	-.41381014	.49824495	-.831	.4062
A_P	-2.71843105	.15685278	-17.331	.0000
P_NC05	2.44306158	.06516770	37.489	.0000
P_R15	.93516403	.11481236	8.145	.0000
P_R25	.79423559	.07394952	10.740	.0000
P_R35	.39797471	.07460782	5.334	.0000
P_R45	.51372346	.08013185	6.411	.0000
P_SX5	.38290369	.04922781	7.778	.0000
P_ID25	1.51761249	.13560118	11.192	.0000
P_ID35	.99152763	.13898260	7.134	.0000
P_ID45	1.18837688	.13270138	8.955	.0000

P_ID55	1.44633049	.14646732	9.875	.0000
P_IN15	.02204162	.16784147	.131	.8955
P_IN25	.24257974	.07912470	3.066	.0022
P_IN35	.29206048	.07926383	3.685	.0002
P_LC5	-1.67942928	.06521696	-25.751	.0000
P_P135	.76597760	.07186891	10.658	.0000
P_P335	2.34877695	.17335966	13.549	.0000
P_P125	1.16287966	.08333059	13.955	.0000
P_P225	.52017195	.07148541	7.277	.0000
P_P325	1.65010694	.13622468	12.113	.0000
P_P215	-.93522649	.21726022	-4.305	.0000
P_P315	.63228797	.10161728	6.222	.0000