

Multinomial Logit Core Functions

This is the example vignette for function: **bfw_mp_func_supply** from the **PrjLabEquiBFW Package**. This function generates a container map with key multinomial logit supply-side equations.

Test BL_LOG_WAGE is false

Default test

```
bl_log_wage = false;
bl_verbose = true;
mp_func_supply = bfw_mp_func_supply(bl_log_wage, bl_verbose);
```

```
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CONTAINER NAME: mp_func Functions
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

	i	idx	
fc_ar_prob_wrk	"1"	"1"	"@(arpsi0,psi1,mtwage,probdenom)fc_v_occ(reshape(arpsi0,[1,length(arpsi0)]),p
fc_log_pmdpo_occ	"2"	"2"	"@(psi0,psi1,arwage,pie1,pie2,pie3,pie4,pie5,pie6,t,prbchd,prbmar,prbapp,prbj
fc_prob_denom	"3"	"3"	"@(arpsi0,psi1,arpie,arwage1,arwage2,arwage3,t,prbchd,prbmar,prbapp,prbj
fc_prob_lei	"4"	"4"	"@(arpie,t,prbchd,prbmar,prbapp,prbjsy,probdenom)fc_v_lei(arpie(1),arpie(2),a
fc_s1	"5"	"5"	"@(p1,G_1,zeta_1_0,zeta_1_1)G_1./(1+(exp(-zeta_1_0-zeta_1_1.*p1)))"
fc_s2	"6"	"6"	"@(p2,G_2,zeta_2_0,zeta_2_1)G_2./(1+(exp(-zeta_2_0-zeta_2_1.*p2)))"
fc_supply	"7"	"7"	"@(potlabor,prob)potlabor.*prob"

Test BL_LOG_WAGE is false

Default test

```
bl_log_wage = true;
mp_func_supply = bfw_mp_func_supply(bl_log_wage, bl_verbose);
```

```
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CONTAINER NAME: mp_func Functions
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

	i	idx	
fc_ar_prob_wrk	"1"	"1"	"@(arpsi0,psi1,mtwage,probdenom)fc_v_occ(reshape(arpsi0,[1,length(arpsi0)]),p
fc_log_pmdpo_occ	"2"	"2"	"@(psi0,psi1,arwage,pie1,pie2,pie3,pie4,pie5,pie6,t,prbchd,prbmar,prbapp,prbj
fc_prob_denom	"3"	"3"	"@(arpsi0,psi1,arpie,arwage1,arwage2,arwage3,t,prbchd,prbmar,prbapp,prbj
fc_prob_lei	"4"	"4"	"@(arpie,t,prbchd,prbmar,prbapp,prbjsy,probdenom)fc_v_lei(arpie(1),arpie(2),a
fc_s1	"5"	"5"	"@(p1,G_1,zeta_1_0,zeta_1_1)G_1./(1+(exp(-zeta_1_0-zeta_1_1.*p1)))"
fc_s2	"6"	"6"	"@(p2,G_2,zeta_2_0,zeta_2_1)G_2./(1+(exp(-zeta_2_0-zeta_2_1.*p2)))"
fc_supply	"7"	"7"	"@(potlabor,prob)potlabor.*prob"