

# CES Demand Core Functions

This is the example vignette for function: **bfw\_mp\_func\_demand** from the **PrjLabEquiBFW Package**. This function generates a container map with key CES demand-side equation for a particular sub-nest.

## Default Test

Default test

```
bl_verbose = true;
mp_func_demand = bfw_mp_func_demand(bl_verbose);
```

----- XX CONTAINER NAME: mp_func Functions XX			
	i	idx	functionString
fc_OMEGA	"1"	"1"	"@(p1,p2,rho,beta_1,beta_2)p1.*fc_d1(p1,p2,1,1,rho,beta_1,beta_2)+p2
fc_d1	"2"	"2"	"@(p1,p2,Y,Z,rho,beta_1,beta_2)(Y/Z).*(beta_1+beta_2.*((p1./p2).*(bet
fc_d2	"3"	"3"	"@(p1,p2,Y,Z,rho,beta_1,beta_2)(Y/Z).*(beta_1.*((p2./p1).*(beta_1./be
fc_lagrange_x1	"4"	"4"	"@(p1,rho,beta_1,beta_2,x_1,x_2)p1/(((beta_1*x_1^(rho)+beta_2*x_2^(rh
fc_lagrange_x2	"5"	"5"	"@(p2,rho,beta_1,beta_2,x_1,x_2)p2/(((beta_1*x_1^(rho)+beta_2*x_2^(rh
fc_output_nest	"6"	"6"	"@(q1,q2,rho,beta_1,beta_2)((beta_1)*q1^(rho)+beta_2*q2^(rho))^(1/rho
fc_p1_foc	"7"	"7"	"@(lagrangem,rho,beta_1,beta_2,x_1,x_2)lagrangem*(((beta_1*x_1^(rho)-
fc_p2_foc	"8"	"8"	"@(lagrangem,rho,beta_1,beta_2,x_1,x_2)lagrangem*(((beta_1*x_1^(rho)-
fc_share_given_elas_foc	"9"	"9"	"@(rho,p1,p2,x1,x2)fc_share_given_elas_foc_Q(rho,p1,p2,x1,x2)/(1+fc_s
fc_w1dw2	"10"	"10"	"@(x_1,x_2,rho,beta_1,beta_2)(x_2/x_1)^(1-rho)*(beta_1/beta_2)"
fc_yz_ratio	"11"	"11"	"@(p1,p2,q1,q2,rho,beta_1,beta_2)fc_revenue(p1,p2,q1,q2)/fc_OMEGA(p1