


```

um(s,b(s)*u(s)) ;

cons1(s)..      u(s) =L= capS(s)*y(s);

cons2(d)..      sum(S,QSD(s,d))=L= capD(d)*x(d);

cons3(s)..      u(s) =e= sum(d,QSD(s,d));

cons4(d)..      sum(s,QSD(s,d)) =e= sum(c,QDC(d,c));

cons5(c)..      sum(d,QDC(d,c)) =l= dem(c);

```

Model SCND

```

/
obj
cons1
cons2
cons3
cons4
cons5
/
;

```

Options

```

mip = CPLEX
reslim =100
*maximum run time (sec.)
optcr = 0
;

```

```

for (p=10 to 15 by 1,
Solve SCND us mip max Z;

```

Display

```

"ouout for p"

```

```

p
Z.l
y.l
x.l
QSD.l
QDC.l
cons1.m
*use
;
);

```

**Parameters*

```

*use (d);
*use (d)=sum(S,QSD.l(s,d));

```



OptimYar