

Complement to Exercise 1: Linear programming and software

Use Cplex from Matlab—new feature now working

It is now possible to call Cplex from within matlab, following the instructions below.

For bash users, type in a Linux command window:

```
> export ILOG_LICENSE_FILE=/chalmers/sw/sup/cplex-11.1/ilm/access.ilm
```

For tcsh users, type in a Linux command window:

```
> setenv ILOG_LICENSE_FILE /chalmers/sw/sup/cplex-11.1/ilm/access.ilm
```

Then start Matlab and add a path to the cplexmex:

```
> matlab &  
  
>> addpath /chalmers/sw/unsup/cplexmex/dist  
>> help cplexmex  
>> help cplexmexparams
```

Then, define an optimization problem, e.g.,

```
sense =1;  
H = [];  
F = [-1 -2 -3];  
A= [1 1 1;10 4 5;2 2 6];  
B=[100 600 300]';  
ctype=['L', 'L', 'L']';  
lb = [0 0 0]';  
ub = [inf inf inf]';  
vartype = ['C', 'C', 'C']';  
params.msglvl = 1;  
params.solver = 0;  
[xopt,opt,status,extra]=cplexmex(sense,H,F,A,B,ctype,lb,ub,vartype,[],params)
```