All_Types

ID_HS_Type

CID_HS_Type

CCO_HS_Type

CIDType

CCO_Type

ID_Type

CID_Factors

CID_Prices

CCO_Fators

CCO_Price

ID_Fators

ID_Prices

Columns_for_CID_U_Factors

Columns_for_CID_U_Prices

Columns_for_CCO_U_Fators

Columns_for_CCO_U_Prices

Columns_for_ID_U_Factors

Columns_for_ID_U_Prices

Calculable_Columns_for_CxO

Calculable_Columns

Calculable_Columns_for_ID

Columns_HS_CID

Columns_HS_CCO

Columns_HS_ID

Calculable_Columns_HS

Calculable_DFs_for_CID

Calculable_DFs_for_CCO

Calculabe_DFs_for_ID

DF_for_CID_U_Factors

+

DF_for_CID_U_Prices

DF_for_CCO_U_Prices

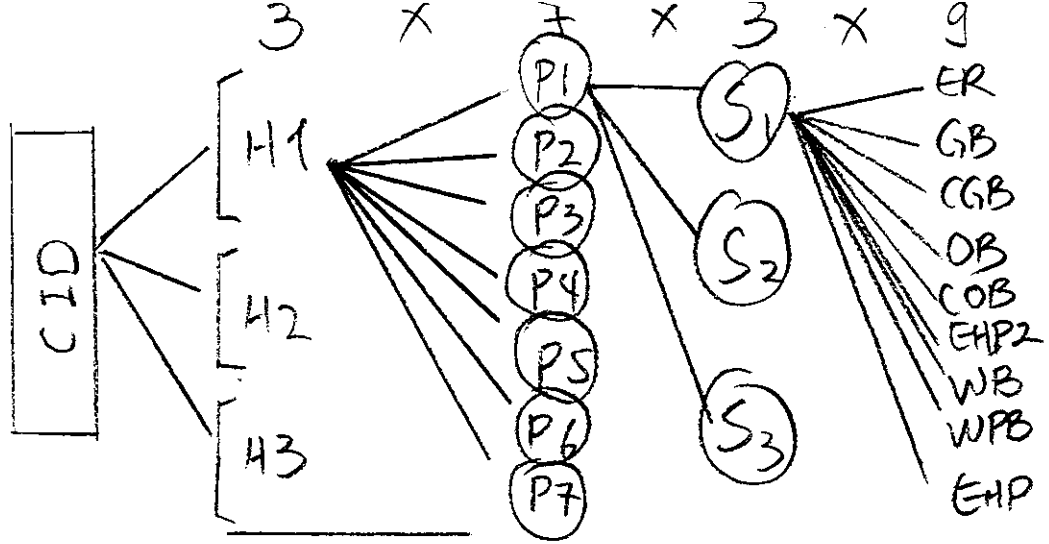
+

DF_for_ID_U_Factors

DF_for_ID_U_Factors

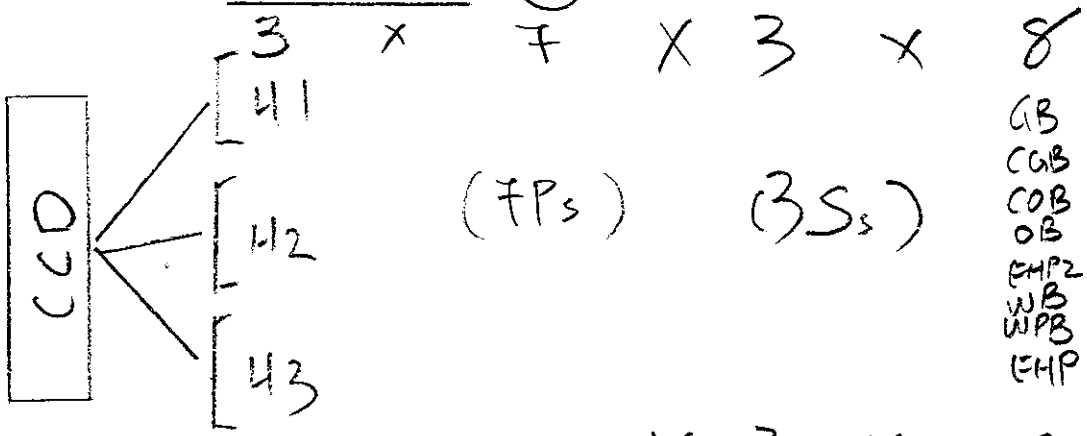
+

DF_for_ID_Prices



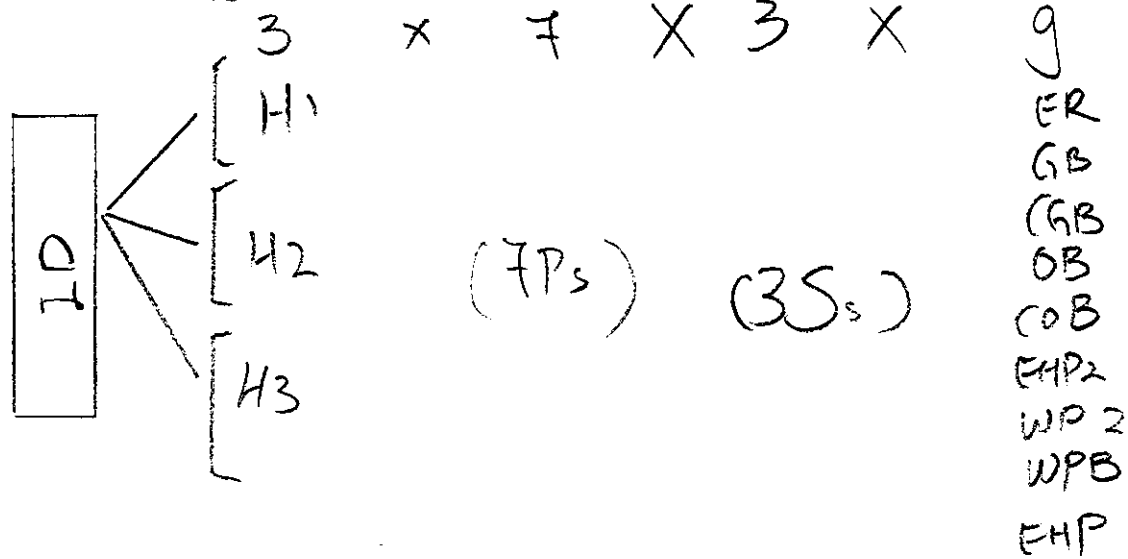
(20 ages of HS)

+

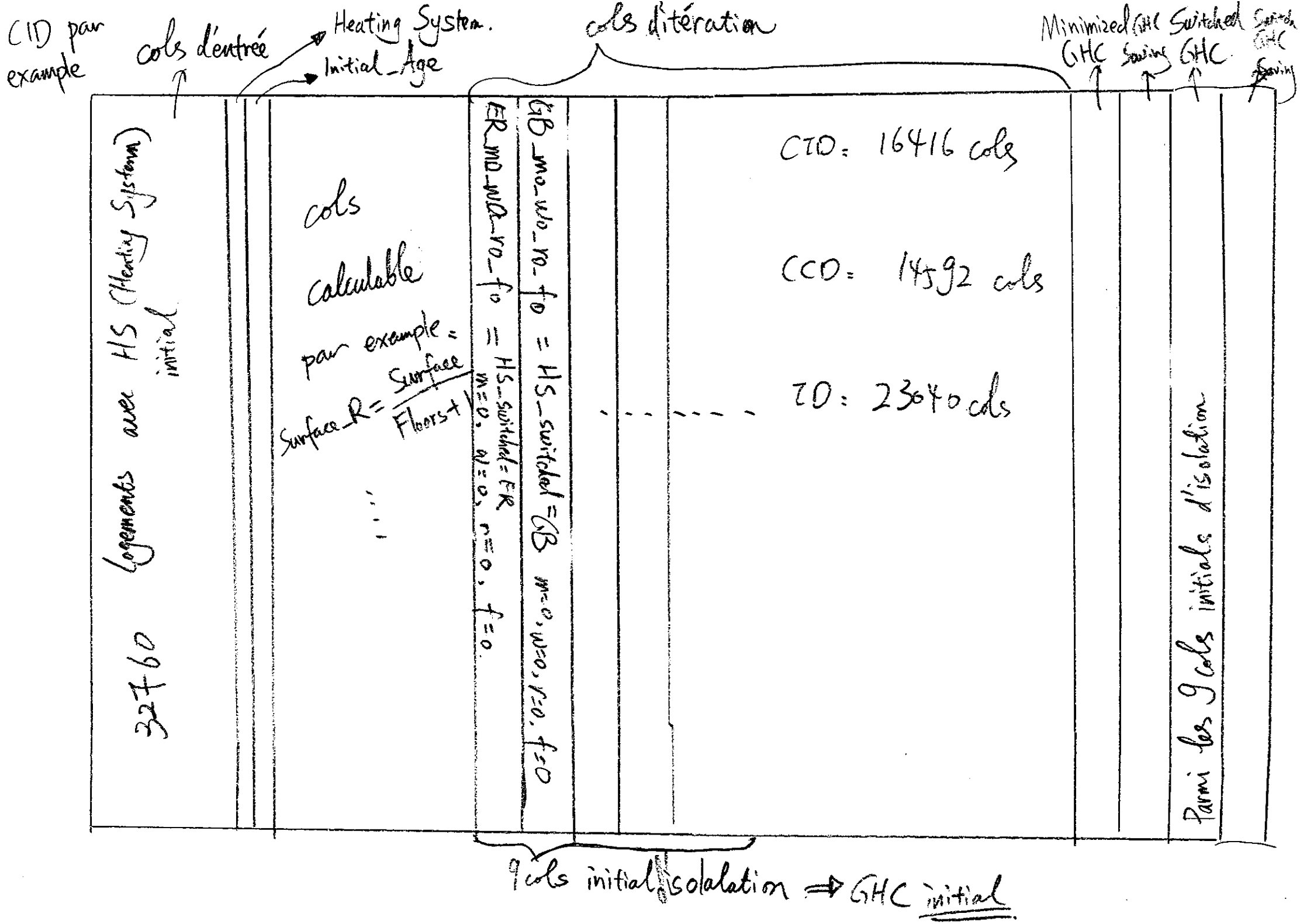


= 32760 lines

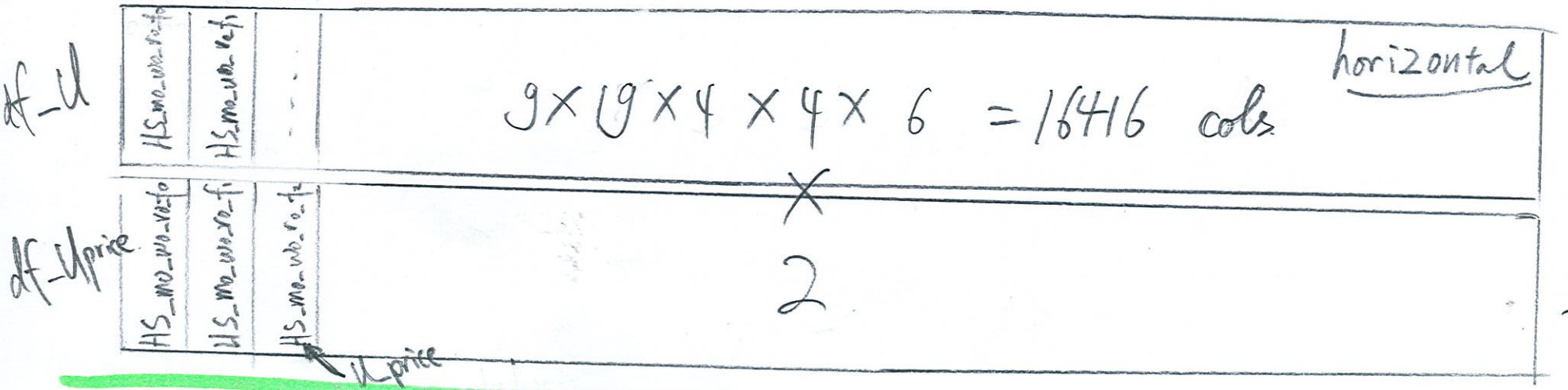
+



↓ vertical


CID par example
cols d'entrée
Heating System.
Initial_Age
cols d'itération
Minimized GHC
Switched GHC Saving
GHC Saving
27760 logements avec HS (Heating System) initial
cols calculable
par example = Surface_R = Surface / Floors+1
ER_MD_WA_YO_f0 = HS_switched=ER m=0, w=0, r=0, f=0
GB_MO_WO_YO_f0 = HS_switched=GB m=0, w=0, r=0, f=0
CTD: 16416 cols
CCD: 14592 cols
TD: 23640 cols
Parmi les 9 cols initials d'isolation
9 cols initial isolation ⇒ GHC initial

CID GHS m∈[0,18] w∈[0,3] r∈[0,3] f∈[0,5]



11340
×
16416
186,157,440

CCD GHS

m∈[0,18] w∈[0,3] r∈[0,3] f∈[0,5]

8×19×4×4×6 = 14592 cols
×
2

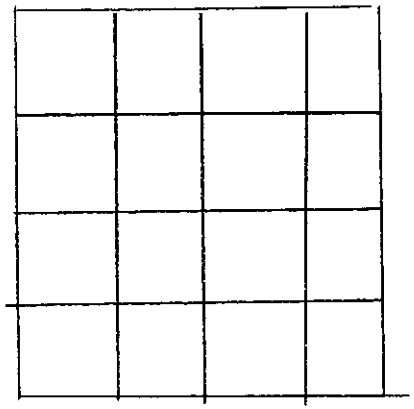
10080
×
14592
147,087,360

ID GHS m∈[0,19] w∈[0,3] r∈[0,7] f∈[0,3]

9×20×4×8×4 = 23040 cols
×
2

11340
×
23040
261,273,600

A



B

I	II	II	II
III	I	II	III
III	II	I	II
II	II	IV	I

conditions

$A \times B = A \times B$

1	0	0	0
0	1	0	0
0	0	1	0
0	0	0	1

$+ A \times B$

0	1	1	1
0	0	1	0
0	1	0	1
1	1	0	0

$+ A \times B$

0	0	0	0
1	0	0	1
1	0	0	0
0	0	0	0

$+ A \times B$

0	0	0	0
0	0	0	0
0	0	0	0
0	0	1	0

$A + B = A + B$

1	0	0	0
0	1	0	0
0	0	1	0
0	0	0	1

$+ B$

0	1	1	1
0	0	1	0
0	1	0	1
1	1	0	0

$+ B$

0	0	0	0
1	0	0	1
1	0	0	0
0	0	0	0

$+ B$

0	0	0	0
0	0	0	0
0	0	0	0
0	0	1	0