HOW TO CREATE A PATTERN FILE SO AS TO USE ONE OF YOUR OWN SAMPLE-SET

Imagine you want to create a new organ using the demo of CAEN sample set.

Install Caen

Download Caen.v2.DEMO.CompPkg.Hauptwerk if you have not yet this free sample-set and install it with Hauptwerk menu File/Install organ or temperament.

The folder of Caen must be the folder 000818,

Run a texte editor like NOTEPAD.

Create a new document. Call it, now or later Caen_demo,pat (or Caen_demo.text).

Start writting

Create the section [required],
The infos you need for that are in the file
packageid000818.InstallationPackageDefinition_Hauptwerk_xml of the folder 000818.
This file contains :

<_General>
<Sys_ObjectID>1</Sys_ObjectID>
<UniqueInstallationPackageID>000818</UniqueInstallationPackageID>
<Name>Caen Demo</Name>
<ShortName>CaenDemo</ShortName>
<PackageSupplierID>000005</PackageSupplierID>
<SupplierName>Jiri Zurek - Sonus Paradisi – Hauptwerk.cz</SupplierName>
<PackageVersion>2.00</PackageVersion>
<PreviousMinInstalledPackageVersionRequiredWhenUpgradingToThisVersion>0</PreviousMinInstalledPackageVersionRequiredWhenUpgradingToThisVersion>
</_General>

Your pattern file must start with :

[required01]
PackageID=000818
Name= Caen Demo
ShortName= CaenDemo

SupplierID= 000005
SupplierName= Jiri Zurek - Sonus Paradisi - Hauptwerk.cz
MinimumVersion=2.0

You can add as many comments you want, before or after this text.
Notice that a line of comment starts with « ; »

So your text can be :

; Caen Demo.CompPkg.Hauptwerk for Myco
; This is my first pattern file
[required01]
PackageID=000818
Name= Caen Demo
ShortName= CaenDemo
SupplierID= 000005
SupplierName= Jiri Zurek - Sonus Paradisi - Hauptwerk.cz
MinimumVersion=2.0
; end of the required section

Now you must add a section [rank] for each rank you want to use,

PLEASE, NOTICE THAT WITH **HAUPTWERK -4** THE LINES **FIRSTSAMPLE**,
LASTSAMPLE AND **INCSAMPLE** ARE NO LONGER REQUIRED.
These lines were only for Hauptwerk-3 users.

Let us start with the pedal board. The sample set Caen Demo contains 3 stops ;

📁 Bombarde16	31/07/2011 19:06
📁 Contrebasse16	31/07/2011 19:07
📁 GrosseFlute8	31/07/2011 19:06

Open these folders and search for the following informations :
lowest sample
hightest sample
increment beetwen samples
search if the release of the samples are stored in a separate folder.

We can see that bombarde16 starts at 036-c.wav and ends at 065-f.wav, so we know
that lowest note will be 36 and hightest 65.
The samples are 36, 37, 38, 39 ,,,, so we can notice the increment is 1,
There are 3 folders for the releases :

📁 rel00150	31/07/2011 19:06
📁 rel00530	31/07/2011 19:06
📁 rel99999	31/07/2011 19:06

We will use only one of them : rel99999

The values for contrebasse16 and grosseFlute8 are exactly the same, so now, we can write the first 3 ranks. They will be :

; Pedal
[rank01]
set=000818
folder=Bombarde16
name=Bombarde 16
Color=0
firstsample=36
lastsample=65
incsample=1
volume36=0
volume96=0
pitch36=0
pitch96=0
releaseFolder=Bombarde16/rel99999

REMARKS
[Rank01] then Rank02, 03 … maximum Rank48
set must be 818 or 000818 (must match with required section)
folder must be the exact name of the folder.
Name may be what you want, for instance « Bomb 16 ft »
color is set to 0 to indicate that the stop is a pedal stop
firstsample is not required for Hauptwerk-4 (could be omitted when equal to 36)
lastsample is not required for Hauptwerk-4 (was mandatoty for HW-3)
incsample is not required for Hauptwerk-4 (was mandatory for HW-3)
volume and pitch should not be use unlless you want to boost the stop or detune it,
volume and pitch may be omitted if equal to 0.

No you can write ;

; Pedal
[rank01]
set=000818
folder=pipe/ped/Bombarde16
name=Bombarde 16
Color=0
lastsample=65
incsample=1
releaseFolder=pipe/ped/Bombarde16/rel99999

[rank02]
set=000818
folder=pipe/ped/Contrebasse16
name=Contrebasse 16
Color=0
lastsample=65
incsample=1
releaseFolder=pipe/ped/Contrebasse16/rel99999

[rank03]

```
set=000818
folder=pipe/ped/Grosseflute8
name=Grosse flute 8
Color=0
lastsample=65
incsample=1
releaseFolder=pipe/ped/Grosseflute8/rel99999
```

Do the same for the manual GO

📁 Bombarde16	31/07/2011 19:04
📁 Bourdon8	31/07/2011 19:02
📁 FluteHarmonique8	31/07/2011 18:55
📁 Gambe8	31/07/2011 19:03
📁 Montre8	31/07/2011 18:55
📁 Prestant4	31/07/2011 18:55
📁 Trompette8	31/07/2011 18:55

```
; Grand Orgue
; color will be 1 for this manual
; hightest note is 091-g,wav

[rank04]
set=000818
folder=pipe/go/Bombarde16
name=Bombarde 16
Color=1
lastsample=91
incsample=1
releaseFolder=pipe/go/Bombarde16/rel99999

[rank05]
set=000818
folder=pipe/go/Bourdon8
name=Bourdon 8
Color=1
lastsample=91
incsample=1
releaseFolder=pipe/go/Bourdon8/rel99999

[rank06]
set=000818
folder=pipe/go/FluteHarmonique8
name=Flute Harm 8
Color=1
lastsample=91
incsample=1
```

releaseFolder=pipe/go/FluteHarmonique8/rel99999

[rank07]
set=000818
folder=pipe/go/Gambe8
name=Gambe 8
Color=1
lastsample=91
incsample=1
releaseFolder=pipe/go/Gambe8/rel99999

[rank08]
set=000818
folder=pipe/go/Montre8
name=Montre 8
Color=1
lastsample=91
incsample=1
releaseFolder=pipe/go/Montre8/rel99999

[rank09]
set=000818
folder=pipe/go/Prestant4
name=Prestant4
Color=1
lastsample=91
incsample=1
releaseFolder=pipe/go/Prestant4/rel99999

[rank10]
set=000818
folder=pipe/go/Trompette8
name=Trompette8
Color=1
lastsample=91
incsample=1
releaseFolder=pipe/go/Trompette8/rel99999

Add a non existing stop if you want

As you can see, the Great of free version of Caen has only 16, 8 and 4 feet stops.
We can add a 2' using twice the prestant 4. For this we must set the volume and pitch
parameters.

; additional 2' rank using Prestant 4' again
; pitch is set to 1200 to transpose 1 octave up
; volume is set to -3 so as to the ne stop is not too loud vs the other stops.
; folder and release folder do not change

[rank11]
set=000818

folder=pipe/go/Prestant4
name=Doublette 2
Color=1
lastsample=91
incsample=1
volume36=-3
volume96=-3
pitch36=1200
pitch96=1200
releaseFolder=pipe/go/Prestant4/rel99999

Stops of the Positive

We will use the color = 2

Bourdon16	31/07/2011 19:09
CorDeNuit8	31/07/2011 19:09
Salicional8	31/07/2011 19:09

; Positif
; color will be 2 for this manual
; folder path is pipe/pos/
; The parameters are the same as Great

[rank12]
set=000818
folder=pipe/pos/Bourdon16
name=Bourdon 16
Color=2
lastsample=91
incsample=1
releaseFolder=pipe/pos/Bourdon16/rel99999

[rank13]
set=000818
folder=pipe/pos/CorDeNuit8
name=CorDeNuit8
Color=2
lastsample=91
incsample=1
releaseFolder=pipe/pos/CorDeNuit8/rel99999

[rank14]
set=000818
folder=pipe/pos/Salicional8
name=Salicional 8
Color=2
lastsample=91
incsample=1
releaseFolder=pipe/pos/Salicional8/rel99999

Add an addition stop if you want

Let us add a Celeste voice, using the salicional8 again,

Transposition must be beetwen +7 to +12 to create a small detune effect.

Volume may be the same or smaller than salicional.

[rank15]
set=000818
folder=pipe/pos/Salicional8
name=Celeste 8
Color=2
lastsample=91
incsample=1
pitch36=8
pitch96=10
volume36=-3
volume96=-3
releaseFolder=pipe/pos/Salicional8/rel99999

Notice that I have set pitch36 lower than pitch96. This means that the detune effect will be stronger for the hight notes. This is not mandatory, but the sound will be better if the bass notes are not too much detuned.

Stops of the Swell

Bassonhautbois8	31/07/2011 19:07
Diapason8	31/07/2011 18:56
Fluteoctaviante4	31/07/2011 19:07
Nasard	31/07/2011 19:08
Octavin2	31/07/2011 19:08

; Récit
; color will be 3 for this manual
; folder path is pipe/rec/
; The parameters are the same as Great

[rank16]
set=000818
folder=pipe/rec/Bassonhautbois8
name=Basson hautbois 8
Color=3
lastsample=91
incsample=1
releaseFolder=pipe/rec/Bassonhautbois8/rel99999

[rank17]
set=000818
folder=pipe/rec/Diapason8
name=Diapason8
Color=3
lastsample=91
incsample=1
releaseFolder=pipe/rec/Diapason8/rel99999

[rank18]
set=000818
folder=pipe/rec/Fluteoctaviante4
name=Flute octaviante 4
Color=3
lastsample=91
incsample=1
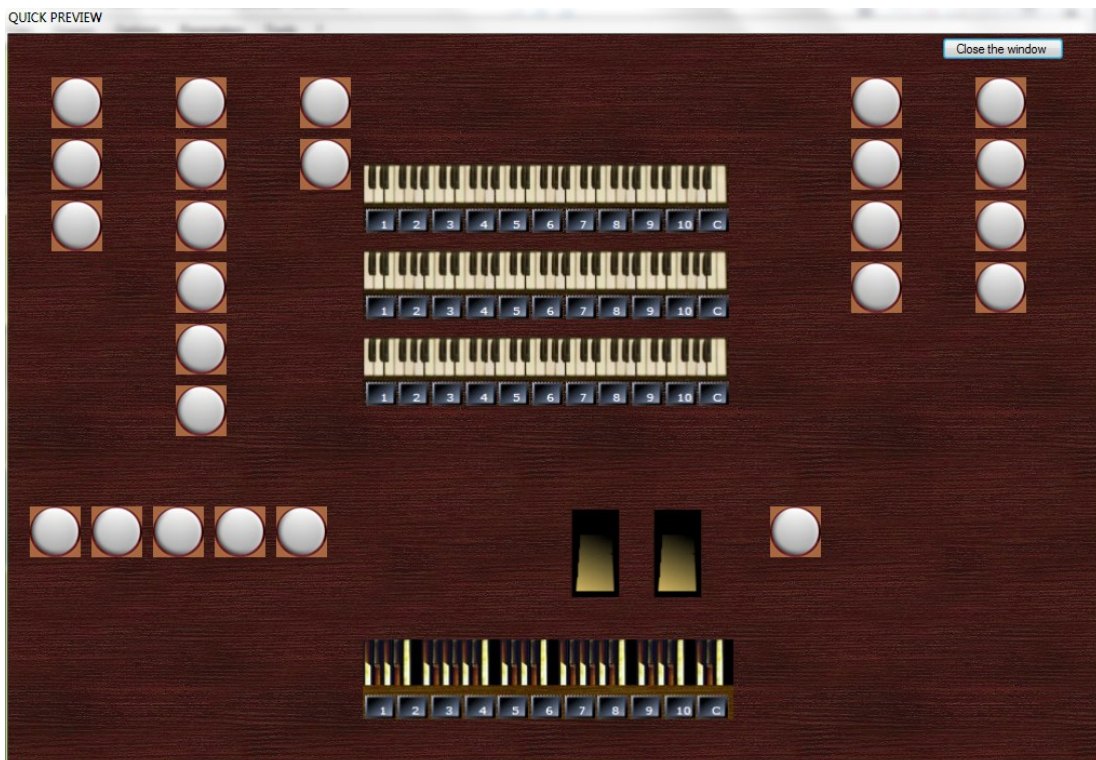releaseFolder=pipe/rec/Fluteoctaviante4/rel99999

[rank19]
set=000818
folder=pipe/rec/Nasard
name=Nasard
Color=3
lastsample=91
incsample=1
releaseFolder=pipe/rec/Nasard/rel99999

[rank20]
set=000818
folder=pipe/rec/Octavin2
name=Octavin 2
Color=3
lastsample=91
incsample=1
releaseFolder=pipe/rec/Octavin2/rel99999

THE RESULT IN MYCO 2012

00 Bombarde 16	06 Bourdon 8	12 Doublette 2	18 Diapason8	24	30	36	42
01 Contrebasse 16	07 Flute Harm 8	13 Bourdon 16	19 Flute octaviante	25	31	37	43
02 Grosse flute 8	08 Gambe 8	14 CorDeNuit8	20 Nasard	26	32	38	44
03 Bombarde 16	09 Montre 8	15 Salicional 8	21 Octavin 2	27	33	39	45
04 Bourdon 8	10 Prestant4	16 Celeste 8	22	28	34	40	46
05 Bourdon 8	11 Trompette8	17 Basson hautbois	23	29	35	41	47

The Preview in Myco :

The organ loaded by Hauptwerk-4 :