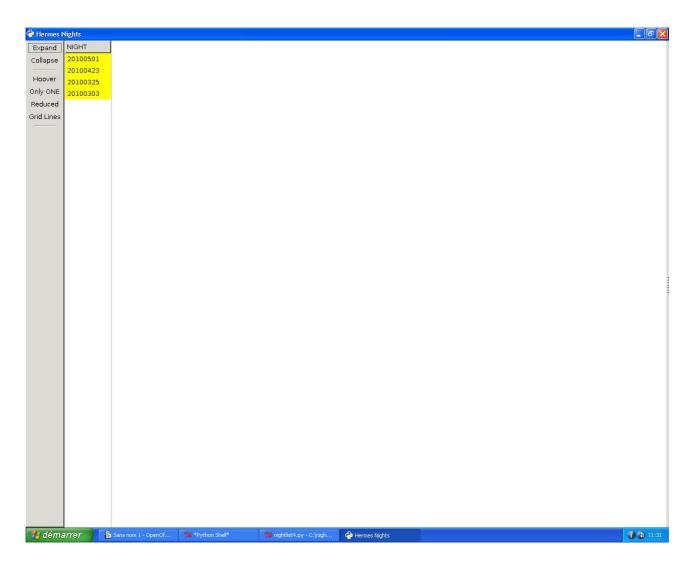
nightlist.py

See here a little tool that was initially made just to control that the daily files were correctly retrieved by FTP. But needs and ideas came along and the tool growth till its actual serious program state, and that's why you may enjoy it.

It is made to be copied in the *«nights»* folder but you may start it from another place just by adapting the path written inside.

At start, it shows a list of nights found in the nights folder, and when a night is selected, it shows the list of files found in the raw folder, with corresponding reduced files. When an object file is selected having entries in the *«reduced/ORDERS»* folder, the graphic shows up at the right, with all facilities to zoom, print, save, or change order. The program needs python, pyfits, gtk, pango, matplotlib, pylab and matplotlib.backends.backend_gtkagg to be up and running.

The goal is to quickly verify most orders of most files of most nights, in order to help some quality control of the pipeline products, but with your help it will be possible to make it better and your suggestions are welcome.



At the starting point, we see the menu at the left side of the screen and a list of the nights.

🕹 HERMES	night of Thurs	day 25 Mar 2010				
(E×pand	NIGHT					
Collapse	20100501					
Hoover	20100423					
Only ONE	20100325					
Reduced	20100303					
Grid Lines						
🦺 déma	arrer 🚺 🚹	🗿 Sans nom 1 - OpenOf	76 *Python Shell*	76 nightlist4.py - C:\nigh	🔶 HERMES night of Thu	11:32

When a night is selected, the program inspects every file to produce a detailed list :

🕹 HERMES 1	night of Thursd	ay 25 Mar 2	010 ob	served	I by Peter Papics		
Expand	NIGHT	-	_		Object	нјр	Program
Collapse	20100501	279860			bias	-	
	20100423	279861	BIAS		bias		
Hoover	20100325	279862	BIAS		bias		
Only ONE	20100303	279863	BIAS		bias		
Reduced		279864	BIAS		bias		
Grid Lines		279865	BIAS		bias		
		279866	BIAS		bias		
BIAS		279867	BIAS		bias		
TH		279868	BIAS		bias		
FF		279869	BIAS		bias		
OBJ		279870	BIAS		bias		
		▶ 279871	тн	HRF	wavelength cal		
		279872	тн	HRF	wavelength cal		
		279873	тн	HRF	wavelength cal		
		279874	тн	HRF	wavelength cal		
		279875	тн	HRF	wavelength cal		
		▶ 279876	FF	HRF	Flat		
		279877	FF	HRF	Flat		
		279878	FF	HRF	Flat		
		279879	FF	HRF	Flat		
		279880	FF	HRF	Flat		
		279881	FF	HRF	Flat		
		279882	FF	HRF	Flat		
		279883	FF	HRF	Flat		
		279884	FF	HRF	Flat		
		279885	FF	HRF	Flat		
		▶ 279886	тн	HRF	wavelength cal		
		279887	тн	HRF	wavelength cal		
		▶ 279888		HRF	HD 38771	2455281.36335	6
		▶ 279889		HRF	HD 37742	2455281.36623	6
		▶ 279890	-	HRF	HD 46769	2455281.37255	6
		▶ 279891		HRF	HD73667	2455281.38094	1
		279892		HRF	wavelength cal		
		▶ 279893	-	HRF	HD37605	2455281.39256	6
		▶ 279894		HRF	HD 38771	2455281.40582	6
		▶ 279895		HRF	HD 37742	2455281.4083	6
		▶ 279896		HRF	HD 46769	2455281.42702	6
		▶ 279897		HRF	HD 50064	2455281.45239	6
		279898		HRF	wavelength cal		
		▶ 279899		HRF	TYC 3022-1004-1	2455281.49093	6
		279900			wavelength cal	-	
🦺 déma	arrer 🔰 🖀	Sans nom 1 - 0	OpenOf	- 7	🖌 *Python Shell*	🎀 nightlist4.py -	C:\nigh 🕹 HERMES night of Thu 🕄 🔞 11:3

As you can see, six columns are shown with information coming from the fits files. You can sort the information on any column, by clicking the column header.

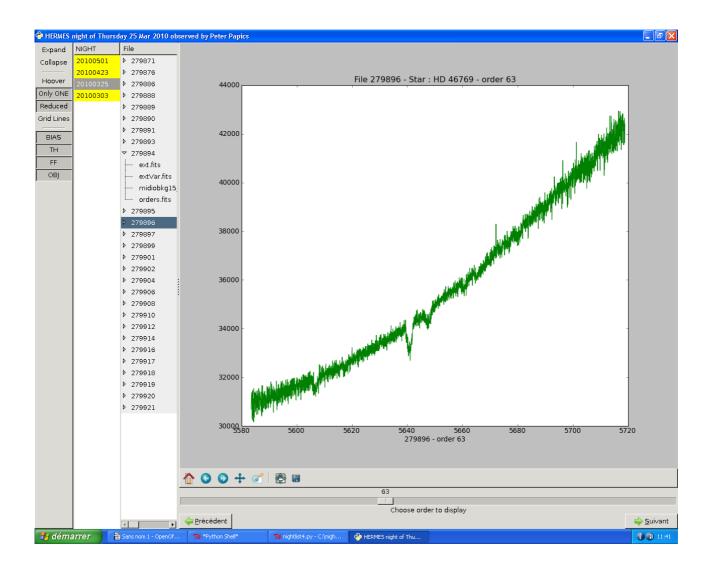
Buttons have been added at the left side, permitting to limit the rows to display on the content of file kind.

🔶 HERMES 1	night of Thursd	ay 25 Mar 2010 observed	by Pe	ter Pap	ics		
Expand	NIGHT	File 🔺	Туре	Fibre	Object	нр	Program
Collapse	20100501	279881	FF	HRF	Flat		•
	20100423	279882	FF	HRF	Flat		
Hoo∨er	20100325	279883	FF	HRF	Flat		
Only ONE	20100303	279884	FF	HRE	Flat		
Reduced		279885	FF	HRE	Flat		
Grid Lines		▶ 279886	тн	HRF	wavelength cal		
		279887	тн	HRF	wavelength cal		
BIAS		▼ 279888	OBJ	HRF	HD 38771	2455281.36335	6
TH		ext.fits	OBJ	HRF	Extracted file		
FF		e×t∨ar.fits	OBJ	HRF	Variance of extracted		
OBJ	1	midiobkg15_15.fits		HRF	Mids of Background		
, 		orders.fits	OBJ	HRF	Orders file		
		▼ 279889	OBJ	HRF	HD 37742	2455281.36623	6
		e×t.fits	OBJ	HRF	Extracted file		
		ext∨ar.fits	OBJ	HRF	Variance of extracted		
		midiobkg15 15.fits		HRF	Mids of Background		
		orders.fits	OB	HRF	Orders file		
		▼ 279890	OBJ	HRF	HD 46769	2455281.37255	6
		e×t.fits	OBJ	HRF	Extracted file		
		e×t∨ar.fits	ОBJ	HRF	Variance of extracted		
		midiobkg15_15.fits	овј	HRF	Mids of Background		
		orders.fits	ОВЈ	HRF	Orders file		
		▶ 279891	овј	HRF	HD73667	2455281.38094	1
		279892	ΤН	HRF	wavelength cal		
		▶ 279893	OBJ	HRF	HD37605	2455281.39256	6
		▶ 279894	OBJ	HRF	HD 38771	2455281.40582	6
		▼ 279895	OBJ	HRF	HD 37742	2455281.4083	6
		e×t.fits	OBJ	HRF	Extracted file		
		e×t∨ar.fits	ОBJ	HRF	Variance of extracted		
		midiobkg15_15.fits	OBJ	HRF	Mids of Background		
		orders.fits	OBJ	HRF	Orders file		
		▶ 279896	OBJ	HRF	HD 46769	2455281.42702	6
		▶ 279897	OBJ	HRF	HD 50064	2455281.45239	6
		279898	тн	HRF	wavelength cal		
		▶ 279899	OBJ	HRF	TYC 3022-1004-1	2455281.49093	6
		279900	тн	HRF	wavelength cal		
		▶ 279901	OBJ	HRF	HD80606	2455281.51999	6
		▶ 279902	ОВJ	HRF	HD101177	2455281.54513	1
		279903	тн	HRF	wavelength cal		
		▶ 279904	ОВJ	HRF	TYC 3022-1004-1	2455281.56075	6
		279905	TH	HRF	wavelength cal		
🦺 déma	arrer 👔	Sans nom 1 - OpenOf 🏾 🎀	*Pytho	n Shell*	7∕4 nightlist4.py - C:\n	igh 🔶 HERMES	5 night of Thu

In front of the file index, one see a small vertical arrow, showing that reduced files are available for this index in the **«reduced»** folder. Clicking on that arrow displays the file names.

		lay 25 Mar 2010 observed	<u> </u>	_						
and	NIGHT	File 🔺	Туре	Fibre	Object	нјр	Program			
apse	20100501	279881	FF	HRF	Flat					
	20100423	279882	FF	HRF	Flat				File 279895 - Star : HD 37742	ordor 67
ver	20100325	279883	FF	HRF	Flat				34000 File 279895 - Star : HD 37742	- order 63
ONE	20100303	279884	FF	HRF	Flat					
uced		279885	FF	HRF	Flat					
Lines		▶ 279886	тн	HRF	wavelength cal					, bb
		279887	тн	HRF	wavelength cal				32000 -	
4S		▼ 279888	OBJ	HRF	HD 38771	2455281.36335	6			
Η		e×t.fits	OBJ	HRF	Extracted file					
F		e×t∨ar.fits	OBJ	HRF	Variance of extracted					
BJ		midiobkg15_15.fits	OBJ	HRF	Mids of Background				30000 -	
		orders.fits	OBJ	HRF	Orders file				30000 -	A 1
		▼ 279889	овј	HRF	HD 37742	2455281.36623	6			F i
		e×t.fits	OBJ	HRF	Extracted file					
		extVar.fits	OBJ	HRF	Variance of extracted					
		midiobkg15 15.fits	OBJ	HRF	Mids of Background				28000 -	-
		orders.fits	OBJ	HRF	Orders file					
		▼ 279890	OBJ	HRF	HD 46769	2455281.37255	6			
		e×t.fits	OBJ	HRF	Extracted file					
		e×t∨ar.fits	OBJ	HRF	Variance of extracted				26000 -	
		midiobkg15_15.fits	OBJ	HRF	Mids of Background					
		orders.fits	OBJ	HRF	Orders file					
		▶ 279891	OBJ	HRF	HD73667	2455281.38094	1			
		279892	тн	HRF	wavelength cal				24000 - 10 200	-
		▶ 279893	OBJ	HRF	HD37605	2455281.39256	6			
		▶ 279894	OBJ	HRF	HD 38771	2455281.40582	6		1 P 1	P 1
		▼ 279895	OBJ	HRF	HD 37742	2455281.4083	6	1		
		ext.fits	OBJ	HRF	Extracted file			11	22000 -	
		e×t∨ar.fits	OBJ	HRF	Variance of extracted				22000	1
		midiobkg15_15.fits		HRF	Mids of Background					
		orders.fits	OBJ	HRF	Orders file					
		▶ 279896	OBJ	HRF	HD 46769	2455281.42702	6			
		▶ 279897	OBJ	HRE	HD 50064	2455281.45239	6		20000 5580 5600 5620 5640 5660 564	30 5700 572
		279898	тн	HRF	wavelength cal				279895 - order 63	
		▶ 279899	OBJ	HRF	TYC 3022-1004-1	2455281.49093	6			
		279900	тн	HRF	wavelength cal					
		▶ 279901	OBJ	HRF	HD80606	2455281.51999	6		🏠 🔾 😋 🕂 💕 👼 🖩	
		▶ 279902	OBJ	HRF	HD101177	2455281.54513	1		63	
		279903	тн	HRF	wavelength cal		-		05	
		▶ 279904	OBJ	HRE	TYC 3022-1004-1	2455281.56075	6		Choose order to display	
		279905	тн	HRF	wavelength cal			-	Précédent	⇔ <u>S</u> uiv
	arrer 👔	Y	*Pytho		76 nightlist4.py - C:\n		5 night of Thu			00

When an object file is selected for which entries are found in the **"reduced/ORDERS"** folder, a graphic is displayed at the right, showing the possibility to browse the available orders.



With the options available in the left menu, one may limit the display to all reduced files, and limit the collapsed branches to the current one.

The user has also enlarged the graph with the vertical handle situated between the graph and the file list. Just grab it and move it horizontally.