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Herschel Pre-Launch DP Hands-On Workshops
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A Warning!!



- HIPE is a big package:
 - 88 342 files, arranged in
 - 1938 folders
 - 1.5 GB (some small flavour differences)
 - Minimum 2GB RAM is currently required to install
 - For many operations 4GB, or even 8GB is required and large scan maps may require as much as 64GB.
 - You can never have too much RAM.
 - Use a fast Internet connection to download
 - Be patient! It can take a long time to download and install.
- Download is highly platform dependent
 - Windows and Mac follow essentially identical download procedures. Linux is "sui generis".
 - But Windows takes much longer to install and uninstall than Mac or Linux, due to operating system differences.



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- What Operating System do I Need?
- HIPE is supported on the three main operating systems
 - Windows XP
 - Linux + Red Hat Enterprise 4
 - Mac (10.5 Leopard, 64 bit only)
- What about Windows Vista?
 - We have had problems with Vista because the InstallAnywhere installer software used by the HSC fails with Vista.
 - With Vista Service Pack 1 available and stability in the Vista platform, these problems should be solved soon.
 - We do have an experimental installer that works with Vista, although it is not ready for public release yet.



- What Else do I Need?
- HIPE is memory intensive: >1GB of RAM is essential.
 - While HIPE should install on computers with 2GB of RAM, it is very dependent on how memory is managed.
 - On some Windows computers it may not be possible to run HIPE even with 2GB of memory if memory is allocated to other processes.
- An up to date browser:
 - Internet Explorer 6, or later
 - Mozilla 1.5, or later
 - Safari (with Mac or Windows)
 - SeaMonkey
- Installation will fail if Java 1.6 is not installed.
- HSC is moving rapidly from 32-bit to 64-bit architecture in line with the transition in the IT industry.
 - On Mac, Java 1.6 only exists for a 64-bit dual core.



How do I get to HIPE?



♦ Herschel Science Centre Development Te							
Research & Science Home	ESA Public Information Site	Sci-Tech Portal	Herschel Public Information Site	e Herschel Sci-Tech Portal			
© esa		Herse	hel Science Centre Developmen	t Team European Space Agency			
Astrophysics Missions	Planetary Explorat	ion Missions	Solar Terrestrial Science Missions	Fundamental Physics Missions			
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	Herschel Interactive P	rocessing Environm	ent:				
HSCDT Home Page	_ , , , , , , , , , , , , , , , , , , ,						
HSCDT Home Page HSCDT Internal Page	Download and Installation Instructions						
Team Calendar (ESA)	The software package for Horse	The coffware package for Harrishal Interactive Processing Environment /UIDEX is the application that					
Contact Lists	 The software package for Herschel Interactive Processing Environment (HIPE) is the application that allows users to work with the Herschel data, including finding the data products, interactive 						
Distribution Lists		analysis, plotting of data and data manipulation.					
FTP area	 Download the inst 	Download the installer for HIPE					
TWiki pages							
Installation Support	The installer page has installation instructions for each operation system and gives the user the option to download an installation with or without the Java Runtime Environment (Except for MacOS						
HSCDT Documentation	X, where it must be downloade	X, where it must be downloaded separately).					
Choose One ▼ ▶	Boundard the South Head of the	Download the installer for a user release					
HCSS Release Doc. Search	Download the installer for a us	er release					
GO	Download the installer for the I	atest development release. This	is an Alpha Release which has only				
HSCDT Software	been Unit tested. Also, it is no	been Unit tested. Also, it is not guranteed that the latest release available with the installer					
Choose One	corresponds to the latest noss	corresponds to the latest hoss new style development build					
Problem Reporting	See the instructions below for	See the instructions below for installing on the different operating systems.					
Choose One							
Herschel Related Links	 Operating Systems 	Operating Systems Supported					
HERSCHEL Science Centre		•					
HIFI Home PACS Home	The following systems are supp						
SPIRE Home	O Windows XP (Windows O MacOS X	O Windows XP (Windows Vista is not supported)					
NHSC HERSCHEL Home	O Linux						
RSSD Restricted Item	 Browsers Support 	ed					
My Portal		80 W 800					
Facilities •	Please use the latest versions	of the browsers.					
Find Us	O Firefox						
Livelink	O Safari						
Who's Who ▶	 Internet Explorer SeaMonkey 						
	Minimum Hardwar	e Requirements					
	O Windows/Linux 32-bit v O Windows/Linux/Mac 64-						
	• Information on the		e Environment)				
The installers for Windows and Linux come in two flavors. There is one with a jre (java runtime							

• When HIPE is formally released, download will be similar to HSpot from the HSC web page, listed by operating system.



A Question of Flavour...

Download the offline installer for HIPE

See the instructions below for installing on the different operating systems.

Platform	With Java 32bit VM	With Java 64bit VM	Without Java VM	Instructions
Windows	Download 0.6.7.1	Not Available	Download 0.6.7.1	View
MacOSX	Not available	Not available	Download 0.6.7.1	View
Linux	Download 0.6.7.1	Download 0.6.7.1	Download 0.6.7.1	View

- HIPE comes with or without JRE (Java Runtime Environment)
 packaged, so you should choose both the Platform that you
 need and whether or not you require Java VM.
- Unless you are certain that you have JRE already installed, you should choose the Java VM option.

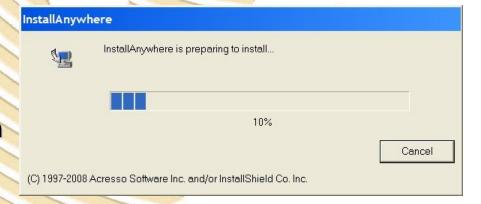


Windows and Mac Download

Light Light

- The download and unpacking process is very similar.
- Once you have decided the Platform and Version, required, click on it to download.
- Windows will request confirmation (right)
 - Choose "Run"
- Mac will download immediately, without requesting confirmation.
- Both Platforms will then unpack automatically when the download ends.







Linux

Helechel

- For Linux, the download process is quite different.
- You must right click on the version that you want to download and install and select "Save Link As..."
- Then you should select the directory that the installer should be downloaded to.

Open Link in New Window
Open Link in New <u>T</u> ab
Bookmark This <u>L</u> ink
Save Lin <u>k</u> As
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Copy Link Location
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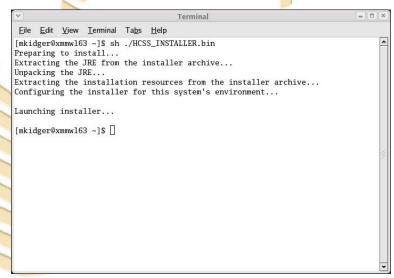


Linux

region!

- The installer will download and save in your chosen directory.
- Once download is complete, open a terminal and, in the same directory, write
- sh ./HCSS_INSTALLER.bin and return to start the installer.

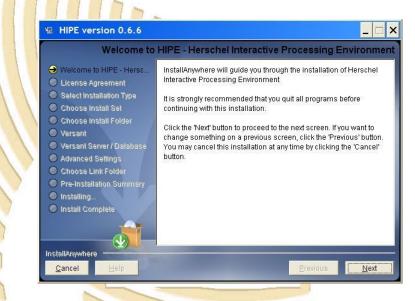






Configuration and Installation

- Final configuration and installation is (almost) identical for all operating systems.
- InstallAnywhere will guide you through the process of configuration, before waiting for confirmation of the final installation.
- The only (small) difference is that, if you are running Windows, a warning message will pop up.
 - Do not panic!
 - Take a deep breath.
 - Accept the warning.
 - Go and have a coffee.







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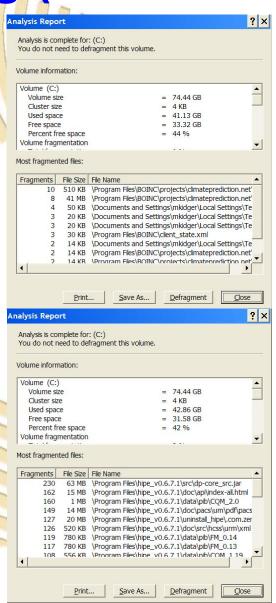
Typical time to	Windows (>10Mb/s LAN line)	Windows (2.5 MB/s ADSL line)	Mac (>10Mb/s LAN line)	Linux (>10Mb/s LAN line)
Download	2 m	54 m	5 m	1.5 m
Unpack	1.5 m	1.5 m	<1 m	
Extract	5.5 m	11m	5.5 m	2.5 m
Configure	2 m	1 m	<1 m	🦸 0.5 m
Install	1h 20 m	1h 43m	5.5 m	711 m
Total	1h 31m	2h 50m	12 m	25 m



Why are we Waiting (for Windows)?

- There is probably not a single explanation; it is a combination of factors:
 - Windows handles files rather inefficiently (important when we install >80 000).
 - The amount of memory that can be assigned to installation is usually limited by the system.
 - The virus scanner checks each file individually.
 - Even installing on a clean disk (above right) leads to heavy fragmentation of files (below right).
 - However, the DP Team is working with Macrovision on some improvements that should greatly alleviate this problem for users.





Before HIPE installation

After HIPE

installation

VG # 12 Mark Kidger http://herschel.esac.esa.int/





