## 2010 R&E: Computer System Education & Research

## Lab 6. Cygwin Installation

Cygwin is a Linux-like environment for Windows users. We are going to compile C and/or Assembly code under Linux in this class. Since the switching from Windows to Linux (and vice versa) requires the system rebooting unless Linux is installed on top of a virtual machine (such as VMWare or Virtual Box), let's simply use Cygwin for compilation.

- 1. Visit the Cygwin site at <a href="http://cygwin.com/">http://cygwin.com/</a>
- 2. Click on install or update icon shown below



3. Run it by clicking 'run' and then 'next'



Cygwin Setup - Choose Installation Type	
Choose A Download Source Choose whether to install or download from the internet, or install from files in a local directory.	E
Install from Internet     (downloaded files will be kept for future re-use)     Download Without Installing	
◯ Install from Local Directory	
< Back Next >	Cancel



Cygwin Setup - Select Local Package Directory	X
Select Local Package Directory Select a directory where you want Setup to store the installation files it downloads. The directory will be created if it does not already exist.	-
Local Package Directory	
C:WDocuments and SettingsWuserWMy DocumentsWCygwin Browse	
< <u>B</u> ack <u>N</u> ext > Cancel	

Cygwin Setup - Select Connection Type	
Select Your Internet Connection Setup needs to know how you want it to connect to the internet. Choose the appropriate settings below.	E
Direct Connection     Use [E5 Settings     Use HTTP/FTP Proxy:	
Proxy <u>H</u> ost Port 80	
< Back Next >	Cancel

4. Let's download and install Cygwin from the KAIST ftp server

🗳 Cygwin Setu	o - Choose Download Site(s)				
Choose A Download Site Choose a site from this list, or add your own sites to the list					
	Available Download Sites:				
	ftp://ftp/sn.hu http://ftp/sn.hu http://ftp/sn.hu http://ftp/sn.hu http://ftp/sa.cid http://ftp.ib.acid http://ftp.ib.acid http://ftp.ib.acid http://ftp.ib.acin ftp://ftp.ib.acin ftp:/ftp.ib.acin ftp:/ft				
User URL:	Add				
	< Back Next > Cancel				

5. Leave it to the default setting and just install it by click on 'next'

C	gwin Setup - Select Packages					
	Select Packages Select packages to install					
	arch Dear Keep Prev O Curr Exp View C	ategory				
	ategory Current New B. S. Size	<u>^</u>				
	All 😌 Default					
	🗄 Accessibility 🚯 Default					
	🗄 Admin 😌 Default	_				
	🗄 Archive 🚯 Default					
	🗄 Audio 🚯 Default					
	🗄 Base 🚯 Default					
	🗄 Database 🚯 Default					
	🗄 Devel 🚯 Default					
	🖽 Doc 🏘 Default	~				
		>				
	✓ Hide obsolete packages					
	< <u>Back</u>	Cancel				

- 6. After you are done with installation, repeat it from step 2
  - a. This time, install everything by selecting 'Install' instead of 'default'
  - b. You could have done this in the step 5. But it takes some time and sometimes it fails to install. I found that this separation works better in installation.

C	Cygwin Setup - Select Packages	
	Select Packages Select packages to install	E
-	Search Qear O Keep O Prev O Quir (	Exp View Category
	Category Current New	B., S., Size 🛛 🔼
	🗆 All 😯 Install	
	🗄 Accessibility 😌 Install	
	🗄 Admin 🔄 Install	
	🗄 Archive 😌 Install	
	🕀 Audio 😌 Install	
	🗄 Base 📀 Install	
	🗉 Database 😌 Install	
	🕀 Devel 😯 Install	_
	🕀 Doc 📭 Install	<u> </u>
		>
	✓ Hide obsolete packages	
-		
	< <u>B</u> ack	Next > Cancel