Ubuntu Testing Report

Testing Object: <u>Ubuntu DeskTop Linux OS v5.04</u>

Report Date: <u>July 22, 2005</u>

Author by

Open Source Testing Lab

Beijing Software Testing Center

Address：Incubator Building 3A, Zhongguancun Software Park, Shangdi, Haidian District, Beijing

Post Code：100094

Tel：（010）82825511

Fax：（010）82826408

URL：http://www.bstqc.com

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Ubuntu DeskTop Linux OS

Testing Result

Ubuntu Desktop Linux V5.04 was tested by Open Source Testing Lab of Beijing Software Quality Testing Center during during July 11th to 22nd. The test followed the national standard "GB/T 16260-1996, Information Technology, Software Products Assessment, Quality Characteristics and Usage Guideline" and "GB/T 17544-1998, Information Technology, Software Package, Quality Requirements and Testing". The testing covered user documentation, functionality, reliability, usability, portability, maintainability, performance, Chinese characteristics. The testing result is summerized as below.

1. User documentation: The user manuals provides detailed information which is correct, complete and consistent with the software. It is easy to browse and understand.

2. Functionality

1) Installation: The tested system implements the functions of installing from CD and from hard disk. It provides friendly easy-to-use GUI interface. However, the whole installation process is not perfect.

2) Startup and logout: The system implements the functions of startup and logout correctly.

3) Control Panel: The system implements the following configuration functions: Networking, CD Database Server, Theme, Sessions, Desktop Background, Font, File Management, Keyboard, Keyboard Shortcut, Mebu& Toolbars, Mouse, Multimedia Systems Selector, Network Proxy, PalmOS Devices, Preferred Applications, Remote Desktop, Removable Drives and Media, Screen Resolution, Windows, etc. It also implements Device Manager, Login Screen Setup, Printing, Shared folders, Synaptic Package Manager, Time and Date, Update Manager, User and Group, System Monitor, etc.

4) Main interface: Ubuntu adopts GNOME Desktop, which has easy-setting enviroment, strong usability and powerful functionality. Compared with other Linux of Chinese versions, Ubunt's interface is more clear and user-friendly.The system implements the functions of setting Startup menu, using Desktop and setting Panel.

5) Resource Manager: The system implements the functions of file operations, editing, background and icon management, viewing, jumping to other places, edit bookmarks, browse help, it also basically implements the function of setting preferences.

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6) Network Neighboughs：Ubuntu can access shared files and devices in Liunx and Windows machines, but Windows machine can not access the shared resources in UbentuLinux. The system implements Telnet, Ping, Access/Read/Write, neighbough listing, network mapping, and device sharing, it also basically implements network configuration during installation, SMB function, system access, computer searching, network printing and access different file systems.

7) The frequently-used commands: The system implements the following frequently used commands: user management, network management, backup/compression, rpm package management and process management. It basicaaly implements file/folder operation commands.

8) Applications: The pre-installed software in the system consist of all kinds of desktop applications and can be used for the frequetly used desktop tasks.

Ø Internet: The systems implements the functions of chattting and downloading. The system basically implements Evolution email and browser functions.

Ø OA: The system implements OpenOffice Predentation 、 OpenOffice Spreadsheet、OpenOffice Word Processor、OpenOffice Style, and OpenOffice Drawing (basically).

Ø Graphics：The system implements GIMP Image Editor, PostScript Viewer, Image Viewer, it basically implements gThumb Image Viewer.

Ø Sound and Video: The system implmentsTotem Movie Player, CD Ripper, and Volume Control, it also basically implements CD Player, Sound Recorder, and Music Player.

Ø Systems tools: The system implements New Login, Network tools, , Terminal, and Configuration Editor.

Ø Accessories: The system implements Dictionary, Character Map, Caculator, it also basically implements Text Editor and Archive Manager.

ϑ Applicatioon software integration: The system implements clipper borad, the integration between applications and system fonts, application startup correctly, it also basically implements the integration between application and print management, and integration among applications.

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3.   Reliability: During the testing process, the system runs smoothly. It has certain fault-tolerance and recovering ability. The system provides indication infromation for invalid inputs. It ahs data backup mechanism. The system is fairly secure. The defaul setting does not permit to log in as root user, to avoid system damage by accidental operations. User verification is required for critical system setting.

4.   Usability: It is easy to browse and understand information in the system. The system basically support the operations of mouse and keyboard, and is fairly easy to use. There is one flaw in the system that there is no confirmation indication for critical edit operations.

5.   Maintainability: The system can estimate the runtime errors,   defects, and the corresponding reasons, and provide analysis indictions. The system provides convenient methods to change the configuration files. Plug-in interfaces are available in the system. Development environment can be installed in the system.

6.   Portability: The system supports many kinds of digital cameras, printers, and USB flash disks from different vendors. Compared with other Linux systems, the plugging-recognizing speed is faster. Refer to Table 6 in the Report for the detailed result.

7.   Performance：Refer to Table 7 in the test report for the results of system timing,resource and network performance.

8.   Chinese charactastics：The system can display Chinese characters basically correctly. However, the system is not localized completely, there are still some English mixed with Chinese in some user interfaces. The system supports Character Set GB 2312, GB 13000.1 partially and does not support GB18030.

NOTE: Particular testing result see test content

Please see the defect report if the testing result is Pass or Fail

2005-07-22

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Testing Environment Configuration:

Virus Scan：

No virus is detected after scanning sample "Ubuntu Linux 5.04" using Rui-Xing Anti-Virus software(17.30.40).

Software Environment：

Terminal	Operating System	Relative Applications
Client	Ubuntu Linux 5.04	Mozilla Firefox 1.0.4

Hardware Environment：

Terminal	Laptop Type	PC number	Configuration
Client	HP EVO D321	PC-N0190	P4 1.8G/512M/40G
	HP D330	PC-N0245	P4 2.66G/512M/40G
	IBM 9CC	PC-N0146	P4 2.4G/512M/80G
	IBM 9CC	PC-N0144	P4 2.4G/512/80G
	HP Compaq d330 uT	PC-N0243	P4 2.66G/512M/40G

Network Environment：

Network Category	Bandwidth	Equipment	Quantity
Ethernet	100M	CISCO CATALYST 3500 Switch	1
Modem	56K	Lanxi Xingyue V.92 56K MODEM	1

Technical Documentation：

《Ubuntu Linux 5.04 Online Help》

Testing Content

1. User Document

Table1 User Document		Page 1	Total 1
Requirement	**Testing Procedure Description**		**Result**
Integrality	Information needed during software using		Pass
	All function explained in product description		Pass
	Description of all function which users can call		Pass
	All boundary values given in product description		Pass
	Information needed in software installing		Pass
Validity	All information in document is correct,and there is not different meanings and error		Pass
Consistency	The document itself,between the documents or between the document and the product description are consistent		Pass
Convenient for understanding	The user document is easy to understand for usual users		Pass
Convenient for browsing	The user document is easy to browse		Pass
	There is catalog or index in user document		Pass

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2. Function

Table 2.1 Install		Page 1	Total 3
Requirement		**Testing Procedure Description**	**Result**
Installing from CD	Starting up from CD	Starting up from CD	Pass
		Choosing the install mode	Pass
	Installing preparation	Choosing language	Pass
		Choosing the location	Pass
		Choosing the keyboard layer	Pass
		Loading additional Components	Pass
		Configuring network	Pass
		Setting host name	Pass
		Detecting CD and all other hardware	Pass
	Partitioning Disk	Dispalying Original Partition	Fail
		Creating a New Partition	Pass
		Guide Partition	Pass
		View Surface/Hda/Sector	Pass
		Edit Partition	Pass
		Copy Data from another partition	Pass
		Delete the partition	Pass
		Undo Changes to Partitions	Pass
		Finish Partitioning and Write Changes to Disk	Pass
	Installing System	Istalling base system	Pass
		Choosing kernel	Pass
		Copying remain package to disk	Pass
		Configuring time zone	Pass

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Table 2.1 Install			**Page 2**	**Total 3**
Requirement		**Testing Procedure Description**		**Result**
Installing from CD	Installing System	Set up user and password		Fail
		Configuring Apt		Pass
	Installing Loading Program	Installing grub to mbr		Pass
		Installing grub to others		Fail
		Installing grub to floppy		Pass
		Installing lilo to mbr		Fail
		Installing lilo to others		Fail
		Installing lilo to floppy		Fail
		Skiping		Pass
Installing from hard disk	Setting boot parameter	Power on and step into grub		Pass
		Setting boot parameter		Pass
	Installing preparation	Choosing language		Pass
		Choosing the location		Pass
		Choosing the keyboard layer		Pass
		Loading additional Components		Pass
		Configuring network		Pass
		Setting host name		Pass
		Detecting disks and all other hardware		Pass
	Partitioning Disk	Dispalying Original Partition		Fail
		Creating a New Partition		Pass
		Guide Partition		Pass
		View Surface/Hda/Sector		Pass
		Edit Partition		Pass

Table 2.1 Install		Page 3	Total 3
Requirement		**Testing Procedure Description**	**Result**
Installing from hard disk	Partitioning Disk	Copy Data from another partition	Pass
		Delete the partition	Pass
		Undo Changes to Partitions	Pass
		Finish Partitioning and Write Changes to Disk	Pass
	Installing System	Istalling base system	Pass
		Choosing kernel	Pass
		Copying remain package to disk	Pass
		Configuring time zone	Pass
		Set up user and password	Fail
		Configuring Apt	Pass
	Installing Loading Program	Installing grub to mbr	Pass
		Installing grub to others	Fail
		Installing grub to floppy	Pass
		Installing lilo to mbr	Fail
		Installing lilo to others	Fail
		Installing lilo to floppy	Fail
		Skiping	Pass

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Table 2.2 Start Up & Shutdown			Page 1	Total 1
Requirement		**Testing Procedure Description**		**Result**
Start Up	Selecting OS	Selecting Start Up Mode		Pass
		Auto Start with Default Mode		Pass
		Edit OS entry		Pass
		Modifying Kernel Parameter		Pass
	Login	Login Page View		Pass
		Input User Name		Pass
		Input Password		Pass
		Login		Pass
		Choosing Language		Pass
		Choosing Session		Pass
		Restart		Pass
		Shutdown		Pass
	Finish Start Up	Desktop View		Pass
		Hardware Support		Pass
		Software Support		Pass
Shutdown		Saving Current Setting		Pass
		Logout		Pass
		Shutdown		Pass
		Restart		Pass
		Hibernate		Pass

Table 2.3 Control Panel			Page1	Total 15
Requirement		**Testing Procedure Description**		**Result**
Printing	Adding New Printer	Typing printer name		Pass
		Typing description		Pass
		Choosing manufacture		Pass
		Choosing printer model		Pass
		Printing test page		Pass
	Printer Status	Set as default		Fail
		Pausing printer		Pass
		Resuming printer		Pass
		Removing printer		Pass
		Properties		Pass
		Pausing jobs		Pass
		Resuming jobs		Pass
		Canceling jobs		Pass
	Printing	Local printing		Pass
		Network printing		Pass
		Share printer of Windows 2000 Professional（sp4）		Pass
		Share printer of Windows 2003		Fail
		Share printer of Windows XP Professional		Pass
		Share printer of Red Hat 8.0		Pass
		Share printer of Red Hat 9.0		Pass
Network settings	Location	Creating location		Pass
		Deleting current location		Pass
		Choosing location		Pass

Table 2.3 Control Panel			Page2	Total 15
Requirement		**Testing Procedure Description**		**Result**
Network settings	Connections	Browsing connection links		Pass
		Edit properties		Pass
		Activating network card		Pass
		Deactivating network card		Pass
		Choosing default gateway device		Pass
	General	Setting hostname		Pass
		Setting domain name		Pass
	DNS	Adding DNS servers		Pass
		Deleting DNS servers		Pass
		Adding search domain		Pass
		Deleting search domain		Pass
	Hosts	Browsing hosts list		Pass
		Adding host alias		Pass
		Edit host properties		Pass
		Deleting host		Pass
Modem setting	General	Choosing device		Pass
		Typing ISP data		Pass
		Typing account data		Pass
	Modem	Choosing modem port		Pass
		Choosing dial type		Pass
		Choosing volume		Pass
	Option	Setting modem as default route to internet		Pass
		Retry if the connection breaks or fails to start		Pass

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Table 2.3 Control Panel			Page3	Total 15
Requirement		**Testing Procedure Description**	**Result**	
CD Database Server		Setting login information	Pass	
		Setting server	Pass	
		Configuring CD Database Server	Pass	
Theme setting		Choosing theme	Pass	
		Installing theme	Pass	
		Browsing theme list	Pass	
		Saving theme	Pass	
		Reverting	Pass	
Session setting	Session options	Show splash screen on login	Pass	
		Ask on logout	Pass	
		Automatically save changes to session	Pass	
		Adding session	Pass	
		Editing session	Pass	
		Deleting session	Pass	
	Current options	Setting currently running programs order	Pass	
		Setting currently running programs style	Pass	
		Removing currently running programs	Pass	
		Applying currently running programs	Pass	
	Startup programs	Adding additional startup programs	Pass	
		Editing additional startup programs	Pass	
		Deleting additional startup programs	Pass	
Removable drives and Media	Storage	Setting removable storage	Pass	
		Setting perform action on discs when inserted	Pass	

Table 2.3 Control Panel			Page4	Total 15
Requirement		**Testing Procedure Description**	**Result**	
Removable drives and Media	Multimedia	Setting play audio CD discs when inserted	Pass	
		Setting play video DVD disks when inserted	Pass	
		Setting import digital photographs when connected	Pass	
Multimedia systems selector	Audio	Setting default sink	Pass	
		Testing sink pipeline	Pass	
		Setting default source	Pass	
		Testing source pipeline	Pass	
	Video	Setting default sink	Pass	
		Testing sink pipeline	Pass	
		Setting default source	Pass	
		Testing source pipeline	Pass	
File management	Views	Setting default view	Pass	
		Setting default icon view	Pass	
		Setting default list view	Pass	
		Setting default tree view	Pass	
	Behavior	Setting behavior	Fail	
		Setting executable text files	Fail	
		Setting trash	Pass	
	Display	Setting icon captions	Pass	
		Setting date	Pass	
	List columns	Browsing list columns information	Pass	
		Move up	Pass	
		Move down	Pass	

Table 2.3 Control Panel			**Page5**	**Total 15**
Requirement		**Testing Procedure Description**		**Result**
File management	List columns	Show		Pass
		Hide		Pass
		Use default		Pass
	Preview	Setting text files		Pass
		Setting other previewable files		Pass
		Setting preview sound files		Pass
		Setting count number of items		Pass
Battery charge monitor		Show battery status		Pass
		Show power connection status		Pass
		Show time/percentage remaining		Pass
		Warn when battery charge is low		Pass
		Warn when battery is fully re-charged		Pass
Desktop background	Desktop wallpaper	Browsing desktop wallpaper information		Pass
		Setting style		Pass
		Adding wallpaper		Pass
		Removing wallpaper		Pass
	Desktop colors	Setting color style		Pass
		Setting colors		Pass
Keyboard	Keyboard	Setting repeat keys		Pass
		Setting cursor blinking		Pass
		Type to test settings		Pass
	Layouts	Choosing keyboard model		Pass
		Adding layouts		Pass

Table 2.3 Control Panel			Page6	Total 15
Requirement		**Testing Procedure Description**		**Result**
Keyboard	Layouts	Removing layouts		Pass
		Move up layout		Pass
		Move down layout		Pass
	Layout option	Setting Alt/Win key behavior		Pass
		Setting CapsLock key behavior		Pass
		Setting Compose		Pass
		Setting Control key position		Pass
		Setting group Shift/Lock behavior		Pass
		Setting miscellaneous compatibility options		Pass
		Setting third level choosers		Pass
		Setting use keyboard LED to show alternative group		Pass
	Typing break	Setting lock screen to enforce typing break		Pass
		Allow postponing of breaks		Pass
	Accessibility	Setting features		Pass
		Enable sticky keys		Pass
		Enable repeat keys		Pass
		Enable slow keys		Pass
		Enable bounce keys		Pass
		Enable toggle keys		Pass
		Enable mouse keys		Pass
Keyboard shortcuts		Browsing keyboard shortcut information		Pass
		Editing shortcut key		Pass

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Table 2.3 Control Panel			Page7	Total 15
Requirement		**Testing Procedure Description**		**Result**
Sound	General	Choosing sound server startup		Pass
		Choosing sounds for events		Pass
	Sound events	Choosing event		Pass
		Browsing sound file		Pass
		Playing sound file		Pass
		Removing sound file		Pass
	System bell	Choosing sound an audible bell		Pass
		Choosing flash window titlebar		Pass
		Choosing flash entire screen		Pass
Mouseb	Buttons	Choosing left-handed mouse		Pass
		Setting double-click timeout		Pass
	Cursors	Setting cursor size		Pass
		Setting locate pointer		Pass
	Motion	Setting speed		Pass
		Setting drag and drop		Pass
Screen resolution		Setting resolution		Pass
		Setting refresh rate		Pass
		Making default for this computer only		Pass
Font		Setting application font		Pass
		Setting desktop font		Pass
		Setting window title font		Pass
		Setting terminal font		Pass
		Setting font rendering		Pass

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Table 2.3 Control Panel			Page8	Total 15
Requirement		**Testing Procedure Description**		**Result**
Users and groups	Users	Adding user		Pass
		Searching user		Pass
		Editing user properties		Fail
		Deleting user		Pass
		Showing all users		Pass
	Groups	Adding group		Pass
		Editing group properties		Pass
		Deleting group		Pass
		Showing all groups		Pass
System log	Log	Open log file		Pass
		Monitor		Pass
		Properties		Pass
		Close		Pass
		Quit		Pass
	Edit	Copy		Pass
		Select all		Pass
		Find		Pass
	View	Show calendar		Pass
		Entry detail		Pass
		Collapse all		Pass
	Help	Contents		Pass
		About		Pass
Synaptic package manager	File	Reading markings		Pass
		Saving markings		Pass

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Table 2.3 Control Panel			Page9	Total 15
Requirement		**Testing Procedure Description**		**Result**
Synaptic package manager	File	Saving markings as		Pass
		Browsing history		Pass
		Quit		Pass
	Edit	Undo		Pass
		Redo		Pass
		Unmark all		Pass
		Search package		Pass
		Reload package information		Pass
		Add CD-ROM		Pass
		Mark all upgrades		Pass
		Fix broken packages		Pass
		Apply marked changes		Pass
	Package	Unmark		Pass
		Mark for installation		Pass
		Mark for reinstallation		Pass
		Mark for upgrade		Pass
		Mark for removal		Pass
		Mark for complete removal		Pass
		Lock version		Pass
		Force version		Pass
		Configure		Pass
		Download change log		Pass
		Properties		Pass

Table 2.3 Control Panel			Page10	Total 15
Requirement		**Testing Procedure Description**		**Result**
Synaptic package manager	Settings	Preferences		Pass
		Repositories		Pass
		Filter		Pass
		Set internal option		Pass
	Other	Browse packages by groups		Pass
		Show package detail information		Pass
		Install、upgrade、remove package		Pass
		Automatic check relation of package when install		Pass
		Double click RPM package can install in file browser		Pass
		Upgrade online		Pass
Time and date		Setting time		Pass
		Setting date		Pass
		Periodically synchronize clock with internet server		Pass
		Setting time zone		Pass
New device scan		Automatic loading USB device		Pass
		Automatic loading to appointed path		Fail
Setting save power		Enable power management		Pass
		Setting time of closing display power		Pass
		Setting time of suspend		Pass
Floppy formatter		Giving note when device has no floppy		Pass
		Choosing file system type		Pass
		Choosing formatting mode		Pass
		Building label		Pass
		Showing formatter schedule		Pass
		Giving note when floppy is write-protect		Pass

Table 2.3 Control Panel			Page11	Total 15
Requirement		**Testing Procedure Description**		**Result**
SCIM Input Method Setup	Service/Panel	Choose current config module		Pass
		Setup GTK interface		Pass
	IMEngine	Activate the installed input method services		Pass
		Setup smart pinyin input method		Pass
		Setup generic table		Pass
	Shortcut key setup	XIM setting		Pass
		Setup keyboard shortcuts		Pass
Add/remove programs		Call Synaptic package manager		Pass
		Showing all installed software		Fail
Remote desktop	Sharing	Allow other users to view your desktop		Pass
		Allow other users to control your desktop		Pass
	Security	Ask you for confirmation		Pass
		Require the user to enter this password		Pass
Login screen setup	General	Setting greeter		Pass
		Setting automatic login		Pass
		Setting timed login		Pass
	Standard greeter	Setting logo		Pass
		Setting background		Pass
		Setting miscellaneous		Pass
	Graphical greeter	Choosing graphical greeter		Pass
		Installing and deleting theme		Pass
	Security	Allowing root to login with GDM		Pass
		Allowing root to login remotely with GDM		Pass

Table 2.3 Control Panel			Page12	Total 15
Requirement		**Testing Procedure Description**		**Result**
Login screen setup	Security	Allowing remote timed logins		Pass
		Showing actions menu		Pass
		Always disallowing TCP connections to X server		Pass
		Setting retry delay		Pass
	Accessibility	Enable accessibility modules		Pass
		Make a sound when login windows is ready		Pass
		Choosing sound file		Pass
		Testing sound		Fail
	XDMCP	Enable XDMCP		Pass
		Setting XDMCP		Pass
Run as different user	Simple	Running appointed program		Pass
		Running as user		Pass
	Advance	Login shell		Pass
		Preserve environment		Pass
Device database		Testing soundcard		Pass
		Testing video		Pass
		Testing mouse		Pass
		Testing network		Pass
		Testing network connection		Pass
		Testing keyboard		Pass
Window	Window selection	Selecting windows when the mouse moves over them		Pass
		Raise selected windows after an interval		Pass
	Titlebar action/movement key	Double-click titlebar to perform this action		Pass
		To move a window, press-and-hold this key then grab the window		Pass

Table 2.3 Control Panel			Page13	Total 15
Requirement		**Testing Procedure Description**	**Result**	
System monitor	File	Quit	Pass	
	Edit	Changing priority	Pass	
		Ending process	Pass	
		Killing process	Pass	
		Setting preferences	Pass	
	View	View memory maps	Pass	
		View dependencies	Pass	
		View threads	Pass	
		View hide process	Pass	
		Hidden processes	Pass	
		Open files	Pass	
	Help	View contents	Pass	
		View about	Pass	
	Processes	Search processes	Pass	
		Choose process show type	Pass	
		Show processes	Pass	
		Show more info	Pass	
		End process	Pass	
	Resources	Show CPU history	Pass	
		Show memory and swap history	Pass	
		Choose devices	Pass	
Network proxy	Proxy configuration	Direct internet connection	Pass	
		Manual proxy configuration	Pass	
		Automatic proxy configuration	Pass	

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Table 2.3 Control Panel			Page14	Total 15
Requirement		**Testing Procedure Description**		**Result**
Network proxy	Advanced configuration	Add host list		Pass
		Remove host		Pass
Menus & toolbars	Behavior and Appearance	Show icons in menus		Pass
		Editable menu accelerators		Pass
		Detachable toolbars		Pass
		Toolbar button labels		Pass
	Preview	Menus preview		Pass
		Toolbars preview		Pass
Assistive Technology Support	Support	Enable assistive technologies		Pass
	Applications	Screenreader		Pass
		Magnifier		Pass
		On-screen keyboard		Pass
Screensaver	Display modes	Choose display modes		Pass
		Set free time		Pass
		Set screensaver property		Pass
		Preview screensaver		Pass
	Advanced	Image Manipulation		Pass
		Display power management		Pass
		Diagnostics		Pass
	File	Blank screen now		Pass
		Lock screen now		Pass
		Kill daemon		Pass
		Restart daemon		Pass

Table 2.3 Control Panel			Page15	Total 15
Requirement		**Testing Procedure Description**		**Result**
Update manager	Reload	Reload packages		Pass
	Preferences	Add		Pass
		Add CD		Pass
		Remove		Pass
		Edit		Pass
		Settings		Pass
Smeg menu editor	Modify menu	Add new menu		Pass
		Edit menu		Pass
		Delete menu		Pass
		Add entry		Pass
		Edit entry		Pass
		Delete entry		Pass
	Set menu	Type menu name		Pass
		Type menu comment		Pass
		Choose menu command		Pass
		Choose running mode		Pass

Table 2.4 Main Interface			Page1	Total 4
Requirement		**Testing Procedure Description**		**Result**
Start Menu	Search	According to name match regular expression search document		Pass
		According to document containing the character string search document		Pass
		According to document revision date search document		Pass
		Show hidden and backup flies		Pass
		Follow symbolic links		Pass
		Include other filesysterms		Pass
		Display the search result tabulates		Pass
		Operates the document in the search result		Pass
		Closure search document dialog box		Pass
		Search the document in assigns contents to		Pass
		Support the fuzzy search		Pass
		Search the sub-folder		Pass
		According to document size search		Pass
		According to document respective user search		Pass
		According to document respective user group search		Pass
	Recently opened documents	Fast open the documents which the office software opens		Pass
		Fast open the documents which the editor opens		Fail
		Fast open the documents which picture software opens		Pass
		Fast open the documents which video and music software opens		Pass
		Delete history documents		Pass
	My Document	Opens the user table of contents in the resource management		Pass

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Table 2.4 Main Interface		Testing Procedure Description	**Page2**	**Total 4**
Requirement		**Testing Procedure Description**		**Result**
Start Menu	Information examination	CPU taking rate		Pass
		Memory taking rate		Pass
		Processes condition		Pass
		Monitoring network current capacity		Pass
	Run command	The feedback information order will pop up the terminal window		Pass
		Run the corresponding procedure		Pass
		Changes to corresponding URL		Pass
		Memorize recently used command		Pass
		Set run option		Pass
	Log out	Register other users		Pass
		The original user reregisters		Pass
		The system restarts		Pass
		The system shuts down		Pass
	Lock the screen	Lock the screen		Pass
	Network search	Automatically connect GOOGLE		Pass
		Returns to the search result according to the search word		Pass
Panel	Taskbar	Display the sign and name of the opened window		Pass
		Minimize the display task window		Pass
		Maxminize the display task window		Pass
		Active the task window		Pass
		Automatically hide the panel		Pass
		Display the fast start-up fence		Pass
		Set the default programme		Pass

Table 2.4 Main Interface			Page 3	Total 4
Requirement		**Testing Procedure Description**		**Result**
Panel	Taskbar	Open the system monitor		Fail
		Display the desktop		Pass
		About taskbar		Pass
		About GNOME		Pass
	Salver	Display the volume		Pass
		Display the input law		Pass
		Display the time		Pass
		Display the network linking condition		Pass
		Double clicking the icon displays the correlation information		Pass
		Clicking the right key enters the setting menu		Pass
		Double clicking the printer icon examines the printer queue		Pass
		Display the Notebook computer power source icon		Pass
	Panel button edit	Configure the fast start		Pass
		Configure the taskbar		Pass
		Configure the salver		Pass
		Add button		Pass
		Delete button		Pass
	Fast start-up fence	Locate nearby the start button		Pass
		Display the desktop		Pass
		Display the browser		Pass
		Display the Email		Pass
	Preference	Set the panel location		Pass
		Set hiding		Pass
		Set appearance		Pass

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Table 2.4 Main Interface		**Page 4**	**Total 4**
Requirement	**Testing Procedure Description**		**Result**
Desktop	Establish the state-up implement		Pass
	Built the new folder or document		Pass
	Delete the icon on the desk		Pass
	Copy file		Pass
	Open with other application		Pass
	Make link		Pass
	Rename		Pass
	Move to trash		Pass
	Stretch icon		Pass
	Restore icon's original size		Pass
	Create archive		Pass
	Send to floppydisk or email		Pass
	Set the icon's properties		Pass
	Refurbish desktop		Fail
	Clean up the icon by name		Pass
	Keep aligned		Pass
	Plaster function		Pass
	Configure the display property		Fail
	Open the folder property dialog box		Pass
	Open the file property dialog box		Pass
	Empty trash		Pass

Table 2.5 File Browser		Page 1	Total 4
Requirement		**Testing Procedure Description**	**Result**
File	Creating	Open New Window	Pass
		Create Folder	Pass
		Create Document	Pass
	Opening Directories	Open	Pass
		Open in New Window	Pass
		Open with Other Application	Pass
	Opening Files	Open with Default Application	Pass
		Open with Other Application	Pass
	Connecting to Server	Setting service type	Pass
		Setting server address	Pass
		Setting optional information	Pass
		Browsing network	Pass
		Cancel	Pass
		Connection	Pass
	Properties	Basic Information	Pass
		Emblems	Pass
		Permissions	Pass
		Open With	Pass
		Notes	Pass
	Others	Empty Wastebasket	Pass
		Close All Windows	Pass
		Close	Pass

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Table 2.5 File Browser			Page2	Total 4
Requirement		**Testing Procedure Description**		**Result**
Edit	Cut & Paste	Cut File		Pass
		Copy File		Pass
		Paste Files		Pass
	Selection	Select All Files		Pass
		Selection Pattern		Pass
	Others	Duplicate		Pass
		Make Link		Pass
		Rename		Pass
		Move to Wastebasket		Pass
		Stretch Icon		Pass
		Restore Icon's Original Size		Pass
		Send to		Pass
		Create Archive		Pass
		Share folder		Pass
		Backgrounds and Emblems		Pass
		Preferences		Pass
Backgrounds and Emblems	Patterns	Add a New Pattern		Pass
		Selecting pattern		Pass
	Colours	Add a New Colour		Pass
		Select Colour		Pass
	Emblems	Add a New Emblem		Pass
		Select Emblem		Pass

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Table 2.5 File Browser			Page3	Total 4
Requirement		**Testing Procedure Description**		**Result**
Preference	Views	Default View		Pass
		Icon View Defaults		Pass
		List View Defaults		Pass
		Tree View Defaults		Pass
	Behaviour	Behaviour		Fail
		Executable Text Files		Fail
		Wastebasket		Pass
	Display	Icon Caption		Pass
		Date		Pass
	List Columns	Choose Columns		Pass
		Move up Column		Pass
		Move down Column		Pass
		Show Column		Pass
		Hide Column		Pass
		Use Default		Pass
	Preview	Text Files		Pass
		Other Previewable Files		Pass
		Sound Files		Pass
		Folders		Pass
View	Loading Content	Stop Loading		Pass
		Reload		Pass
	Side Pane	Show Side Pane		Pass
		Hide Side Pane		Pass

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Table 2.5 File Browser		Page3	Total 4
Requirement		**Testing Procedure Description**	**Result**
View	Side Pane	View Directories	Pass
		Switch to tree view	Pass
		Switch to history view	Pass
		Switch to note view	Pass
		Switch to emblems view	Pass
	Status Bar	Show Status Bar	Pass
		Hide Status Bar	Pass
		View Statusbar information	Pass
	Location Bar	Show Location Bar	Pass
		Hide Location Bar	Pass
		Displaying Current Path	Pass
		Going to Specified Path	Pass
		Displaying as Icon	Pass
		Displaying as List	Pass
		Setting Icon Size	Pass
	Viewer Attributes	Reset View to Defaults	Pass
		Show Hidden Files	Pass
		Hide Hidden Files	Pass
	Arrange Items	Manually	Pass
		Order by	Pass
		Compact Layout	Pass
		Reserve Order	Pass
		Clear Up by Name	Pass

Table 2.5 File Browser			Page4	Total 4
Requirement		**Testing Procedure Description**		**Result**
View	Visible Column	Choose Visible Column		Pass
		Move Up / Move Down		Pass
		Use Default		Pass
	Zoom	Zoom in		Pass
		Zoom out		Pass
		Normal Size		Pass
	View as	View as Icons		Pass
		View as List		Pass
Go	Usual Location	Open Parent		Pass
		Back		Pass
		Forward		Pass
	Predefine Location	Home		Pass
		Computer		Pass
		Templates		Pass
		Wastebasket		Pass
		CD/DVD Creator		Pass
		Location		Pass
	History	Clear History		Pass
		Go to History Record		Pass
Bookmarks		Add Bookmark		Pass
		Edit Bookmark		Pass
		View Bookmark List		Pass
		Go to bookmark		Pass
Help		Contents		Pass
		About		Pass

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Table 2.6 Network Neighborhood			Page1	Total 4
Requirement		**Testing Procedure Description**		**Result**
Network installation and configuration	Install/ Uninstall	Automatically install the network card and other network equipments		Pass
		Manually install the network card and other network equipments		Pass
		Automatically uninstall the network card and other network equipments		Pass
		Manually uninstall the network card and other network equipments		Pass
	Setting parameter	Set the network address parameter		Pass
		Set the DNS parameter		Pass
		Set the gateway address parameter		Pass
		Set the host name parameter		Pass
		Set the subnet address aparameter		Pass
		Automatically check the IP conflict and the DNS availability		Fail
		The network configuration function		Pass
SMB function	Configuration	Set the entry account number		Pass
		Set the entry password		Fail
		Default the entry name and user group		Pass
		Change the SMB's user name		Pass
		Change the SMB's workgroup name		Pass
	Between the Mac OS visits	Visit the Windows 2,000 shared directories from ubuntu		Pass
		Visit the Windows XP shared directories from ubuntu		Pass
		Visit the Windows 2,003 shared directories from ubuntu		Pass
		Visit the ubuntu shared directories from Windows 2,000		Fail

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Table2.6 Network Neighborhood			Page2	Total4
Requirement		**Testing Procedure Description**		**Result**
SMB function	Between the Mac OS visits	Visit the ubuntu shared directories from Windows XP		Fail
		Visit the ubuntu shared directories from Windows 2003		Fail
		Visit the ubuntu shared directories from ubuntu		Pass
System Vist	Vist	Vist the Windows 2000 shared files		Pass
		Vist the Windows XP shared files		Pass
		Vist the Windows 2003 shared files		Pass
		Vist the local shared files		Pass
		Vist the Windows 2000 shared equipments		Pass
		Vist the Windows XP shared equipments		Pass
		Vist the Windows 2003 shared equipments		Fail
		Vist the local shared equipments		Fail
	Copy/ Plaster	Mutually copy the file in the local system		Pass
		Mutually copy the file between ubuntu and Windows 2000		Fail
		Mutually copy the file between ubuntu and Windows XP		Fail
		Mutually copy the file between ubuntu and Windows 2003		Fail
		Mutually plaster the file in the local system		Pass
		Mutually plaster the file between ubuntu and Windows 2000		Fail
		Mutually plaster the file between ubuntu and Windows XP		Fail
		Mutually plaster the file between ubuntu and Windows 2003		Fail
		Mutually copy the folder in the local system		Pass
		Mutually copy the folder between ubunt and Windows 2000		Fail
		Mutually copy the folder between ubunt and Windows XP		Fail

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Table2.6 Network Neighborhood			Page3	Total 4
Requirement		**Testing Procedure Description**		**Result**
Systerm Vist	Copy / Plaster	Mutually copy the folder between ubuntu and Windows 2003		Fail
		Mutually plaster the folder in the local system		Pass
		Mutually plaster the folder between ubuntu and Windows 2000		Fail
		Mutually plaster the folder between ubuntu and Windows XP		Fail
		Mutually copy the folder between ubuntu and the Windows 2003		Fail
		copy the big file in the local system		Pass
		copy the big file in the Windows 2000 system		Pass
		copy the big file in the Windows XP system		Pass
		copy the big file in the Windows Xp system		Pass
		Simultaneously copy many files in the local systerm		Pass
		Simultaneously copy many files in the Windows 2000 systerm		Pass
		Simultaneously copy many files in the Windows XP systerm		Pass
		Simultaneously copy many files in the Windows 2003 systerm		Pass
Telnet Function		Support Telnet protocol client server		Pass
Ping Tool		Realize the Ping operation according to the IP address		Pass
		Realizes the Ping operation according to the Web address		Pass
Search		According to IP search the computer on the netwok		Fail
		According to Hostname search the computer on the netwok		Fail
		Search the computer in the different workgruop		Fail
Vist / Read and Write		Using the IP address to visit the computer		Pass
		Using the Hostname to visit the computer		Pass
		Inputing the user name and the password visit other computers		Pass

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Table2.6 Network Neighborhood		Page4	Total 4
Requirement	**Testing Procedure Description**	**Result**	
Vist / Read and Write	Realize the file read-only visit	Pass	
	Realization file read-write visit	Pass	
Display	According to the shape of tree structure display the network neiborhood tabulates	Pass	
	According to the workgroup structure display the Network Neiborhood tabulates	Pass	
File Style	Directly operate shared different style file	Pass	
	Opens the text files in the network	Pass	
	Opens the picture files in the network	Fail	
	Opens the audio files in the network	Pass	
	Opens the video files in the network	Pass	
Network Printing	Recognise the network printer	Pass	
	Configure the network printer	Pass	
	Use the network printer to print	Pass	
	Use the ubuntu system shared printer	Fail	
	Use the Windows 2000 system shared printer	Pass	
	Use the Windows XP system shared printer	Pass	
	Use the Windows 2003 system shared printer	Fail	
	Use the local system shared printer	Pass	
Network Mapping	Provide the network driver mapping function	Pass	
Share	Set the file sharing	Pass	
	Set the folder sharing	Pass	
	Set the reading jurisdiction	Pass	
	Set the writing jurisdiction	Pass	
	Cancel the file sharing	Pass	
	Cancel the folder sharing	Pass	

Table 2.7 Commands		Page1	Total 3
Requirement	**Testing Procedure Description**		**Result**
User Management	useradd		Pass
	adduser		Pass
	userdel		Pass
	usermod		Pass
	passwd		Pass
	su		Pass
	sudo		Pass
	groupadd		Pass
	groupdel		Pass
	groupmod		Pass
	chfn		Pass
	ls		Pass
File/Directory Management	pwd		Pass
	cd		Pass
	mkdir		Pass
	mv		Pass
	rmdir		Pass
	cp		Pass
	rm		Pass
	ln		Pass
	touch		Pass
	file		Fail
	find		Pass

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Table 2.7 Commands		Page2	Total 3
Requirement	**Testing Procedure Description**		**Result**
File/Directory Management	grep		Pass
	chown		Pass
	chmod		Pass
	chgrp		Pass
	sort		Pass
	wc		Pass
	head		Pass
	tail		Pass
	cat		Fail
	more		Fail
	less		Fail
	cut		Pass
Network Management	ifconfg		Pass
	ping		Pass
	route		Pass
	telnet		Pass
	ftp		Pass
	netstat		Pass
	nslookup		Pass
	finger		Pass
Apt Management	install		Pass
	query		Pass
	upgrade		Pass
	remove		Pass

Table 2.7 Commands		Page3	Total 3
Requirement	**Testing Procedure Description**	**Result**	
Backup/Zip and Unzip Command	tar	Pass	
	gzip	Pass	
	gunzip	Pass	
Process Management Command	kill	Pass	
	top	Pass	
	ps	Pass	
Others	man	Pass	
	reboot	Pass	
	halt	Pass	

Table 2.8.1 Applications－Internet			Page1	Total 6
Requirement		**Testing Procedure Description**	**Result**	
Evolution	Mail	Set mail account	Pass	
		Set folder	Pass	
		Send/Receive mail	Pass	
		Edit mail	Pass	
		Edit rules of mail	Pass	
		Print mail	Pass	
		Edit contacts	Pass	
		Open attached file	Pass	
	Tasks	Create new task	Pass	
		Edit task	Pass	
		View task	Pass	
		Delete task	Pass	

Table 2.8.1 Applications－Internet		Page2	Total 6
Requirement		**Testing Procedure Description**	**Result**
Evolution	Calendars	New appointment	Pass
		Edit appointment	Pass
		Delete appointment	Pass
	Exchange	Set Exchange	Fail
		View Exchange	Pass
	Setting	Set preference	Pass
Gaim Internet Messenger	Chat	Support network chat	Pass
		Send immediate message	Pass
		Receive immediate message	Pass
		Transfer file	Pass
	Account	Add account	Pass
		Edit account	Pass
		Delete account	Pass
	Setting	Set preference	Pass
GnomeMeeting	Call	Connect	Pass
		Disconnect	Pass
		Set status	Pass
		Speed dials	Pass
		Hold call	Pass
		Transfer call	Pass
		Suspend audio	Pass
		Close	Pass
		Quit	Pass
	Edit	Configuration druid	Pass
		Set preferences	Pass

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Table 2.8.1 Applications－Internet			Page3	Total 6
Requirement		**Testing Procedure Description**		**Result**
GnomeMeeting	View	Text chat		Pass
		Control panel		Pass
		Clear text chat		Pass
		Zoom in		Pass
		Zoom out		Pass
		Normal size		Pass
		Fullscreen		Pass
	Tools	Address book		Pass
		General history		Pass
		Calls history		Pass
Xchat IRC	X-Chat	Server list		Pass
		New tab		Pass
		New window		Pass
		Detach tab		Pass
		Close tab		Pass
		Quit		Pass
	IRC	Set IRC property		Pass
	Server	Connect server		Pass
		Disconnect server		Pass
		Re-connect server		Pass
		Enter chatroom		Pass
		Quit from chatroom		Pass
		Server list		Pass

Table 2.8.1 Applications-Internet			Page4	Total 6
Requirement		**Testing Procedure Description**		**Result**
Xchat IRC	Server	Ping server		Pass
		Hide version information		Pass
		Edit this menu		Pass
	Setting	Set preference		Pass
		Set advanced option		Pass
	Window	Open ban list		Pass
		Open channel list		Pass
		Open character chart		Pass
		Open direct chat		Pass
		Open file receive		Pass
		Open file send		Pass
		Open ignore list		Pass
		Open notify list		Pass
		Open plugins and scripts		Pass
		Open raw log		Pass
		Open URL grabber		Pass
	Setting window	Reset marker line		Pass
		Clear text		Pass
		Search text		Pass
		Save text		Pass
	Chat	Support network chat		Pass
		Send immediate message		Pass
		Receive immediate message		Pass

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Table 2.8.1 Applications-Internet		**Page5**	**Total 6**
Requirement	**Testing Procedure Description**	**Result**	
Firefox Web Browser	File operation	Pass	
	Page editing	Pass	
	Print	Fail	
	Search	Pass	
	Set text size	Pass	
	Set bookmark	Pass	
	Set security management	Pass	
	Support HTML	Pass	
	Support FTP	Pass	
	Support DOM	Pass	
	Support Cookie	Pass	
	Support marquee	Pass	
	Support script language	Pass	
	Support multimedia	Pass	
	Support Form	Pass	
	Support xml	Pass	
	Support object	Pass	
	Browse website	Pass	
GNOME BitTorrent	Open BT meta file	Pass	
	Execute BT download	Pass	
	Display download progress correctly	Pass	
	Support breakpoint download	Pass	
	Support multithreading download	Pass	

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Table 2.8.1 Applications-Internet		Page6	Total 6
Requirement	**Testing Procedure Description**		**Result**
Terminal servet client	Set general property		Pass
	Set display property		Pass
	Set local resources property		Pass
	Set programs property		Pass
	Set performance property		Pass
	Open setting file		Pass
	Save setting file		Pass
	Connect to Terminal server		Pass

Table 2.8.2 Applications-Office			Page1	Total 6
Requirement		**Testing Procedure Description**		**Result**
OpenOffice.org Drawing	File	Create drawing		Pass
		Open drawing		Pass
		Save drawing		Pass
		Print drawing		Pass
	Edit	Cut		Pass
		Copy		Pass
		Paste		Pass
		Drawing		Pass
		Fill in		Pass
	View	Full screen		Fail
		Zoom		Pass
		Display on specified condition		Pass

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Table 2.8.2 Applications-Office			Page2	Total 6
Requirement		**Testing Procedure Description**		**Result**
OpenOffice.org Drawing	Insert	Object		Pass
		Spreadsheet		Pass
		Graphics		Pass
		Chart		Pass
		Floating frame		Pass
		Others		Pass
	Format	Set format		Pass
		Set style		Pass
	Tools	Gallery		Pass
		Eyedropper		Pass
OpenOffice.org Presentation	File	Create presentation		Pass
		Open predentation		Pass
		Save predentation		Pass
		Print predentation		Pass
	Edit	Cut		Pass
		Copy		Pass
		Paste		Pass
	Presentation	Insert page		Pass
		Modify slide layout		Pass
		Slide design		Pass
		Duplicate slide		Pass
		Expand slide		Pass
		Set master slide		Pass

Table 2.8.2 Applications-Office		Page3	Total 6
Requirement		**Testing Procedure Description**	**Result**
OpenOffice.org Presentation	Presentation	Slide show	Pass
		Rehearse timings	Pass
		Slide show setting	Pass
	View	Full screen	Pass
		Zoom	Pass
		Dispaly on specified condition	Pass
	Insert	Object	Pass
		Spreadsheet	Pass
		Graphics	Pass
		Chart	Pass
		Floating frame	Pass
		Others	Pass
	Format	Set format	Pass
		Set style	Pass
OpenOffice.org Spreadsheet	File	Create spreadsheet	Pass
		Open spreadsheet	Pass
		Save spreadsheet	Pass
		Print spreadsheet	Pass
	Edit	Cut	Pass
		Copy	Pass
		Paste	Pass
	Spreadsheet	Insert sheet	Pass
		Delete sheet	Pass

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Table 2.8.2 Applications-Office			Page4	Total 6
Requirement		**Testing Procedure Description**		**Result**
OpenOffice.org Spreadsheet	Spreadsheet	Insert row		Pass
		Delete row		Pass
		Insert column		Pass
		Delete column		Pass
		Insert cell		Pass
		Compute data		Pass
	View	Full screen		Pass
		Zoom		Pass
		Dispaly on specified condition		Pass
		Data sources		Pass
	Insert	Function		Pass
		Object		Pass
		Graphics		Pass
		Chart		Pass
		Floating frame		Pass
		Others		Pass
	Format	Set format		Pass
		Set style		Pass
OpenOffice.org Word Processor	File	Create document		Pass
		Open document		Pass
		Save document		Pass
		Print document		Pass
	Edit	Cut		Pass
		Copy		Pass
		Paste		Pass

Table 2.8.2 Applications-Office			Page5	Total 6
Requirement		**Testing Procedure Description**		**Result**
OpenOffice.org Word Processor	View	Full screen		Pass
		Zoom		Pass
		Dispaly on specified condition		Pass
	Insert	Header		Pass
		Footer		Pass
		Footnote		Pass
		Bookmark		Pass
		Note		Pass
		Indexes and tables		Pass
		Object		Pass
		Graphics		Pass
		Others		Pass
	Format	Set format		Pass
		Set style		Pass
	Tool	Spellcheck		Pass
		Word count		Pass
OpenOffice.org From Template	New Document	HTML document		Pass
		Labels		Pass
		Formula		Pass
		Spreadsheet		Pass
		Drawing		Pass
		Business cards		Pass
		Text document		Pass
		Presentation		Pass
		Master document		Pass

Table 2.8.2 Applications-Office			Page6	Total 6
Requirement		**Testing Procedure Description**		**Result**
OpenOffice.org From Template	Templates	Open templates		Pass
		Edit template		Pass
		Organize template		Pass
	View	My document		Pass
		Samples		Pass

Table 2.8.3 Applications-Graphics			Page1	Total 4
Requirement		**Testing Procedure Description**		**Result**
GIMP Image Editor	Main window function	File operation		Pass
		Set preference		Pass
		Set display dialog		Pass
		Extended operation		Pass
	Image Editor	File operation		Pass
		Edit operation		Pass
		Select operation		Pass
		View operation		Pass
		Image operation		Pass
		Layer operation		Pass
		Tools operation		Pass
		Dialog operation		Pass
		Filter operation		Pass
		Python-Fu operation		Pass
		Script-Fu operation		Pass

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Table 2.8.3 Applications-Graphics		Page2	Total 4
Requirement		**Testing Procedure Description**	**Result**
gThumb image Viewer	File	Open file	Pass
		Open folder	Pass
	Image format	Support BMP file	Pass
		Support JPG file	Pass
		Support GIF file	Pass
		Support TIF file	Pass
		Support PNG file	Pass
		Support TGA file	Pass
		Support RAS file	Pass
	Edit	Edit image	Pass
		Find image	Pass
		Add to catalog	Pass
		Set preference	Pass
	View	Full screen	Pass
		Slide show	Pass
		Zoom	Pass
		Folders	Pass
		Catalogs	Pass
		Image	Pass
	Image editor	Edit image	Pass
		Transform image	Pass
		Auto regulation	Pass
	Bookmark	Add bookmark	Pass
		Edit bookmark	Pass

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Table 2.8.3 Applications-Graphics			Page3	Total 4
Requirement		**Testing Procedure Description**		**Result**
gThumb image Viewer	Tools	Set image as wallpaper		Pass
		Edit image		Fail
		Others		Pass
PostScriptViewer	File	Open		Pass
		Reload		Pass
		Save		Pass
		Print		Pass
		Close		Pass
	Edit	PostScript Viewer preference		Pass
	View	Orientation		Pass
		Size		Pass
		Full Screen		Pass
		Zoom		Pass
		Auto-fit		Pass
		Layout		Pass
Image Viewer	File	Open file		Pass
		Open folder		Pass
	Image format	Support BMP file		Pass
		Support JPG file		Pass
		Support GIF file		Pass
		Support TIF file		Pass
		Support PNG file		Pass
		Support TGA file		Pass
		Support RAS file		Pass

Table 2.8.3 Applications-Graphics			**Page4**	**Total 4**
Requirement		**Testing Procedure Description**		**Result**
Image Viewer	Edit	Filp horizontal/vertical		Pass
		Rotate		Pass
		Delete		Pass
		Preference		Pass
	View	Image information		Pass
		Full screen		Pass
		Zoom in		Pass
		Zoom out		Pass
		Normal size		Pass
		Best fit		Pass

Table 2.8.4 Applications-Sound & Video			**Page1**	**Total 3**
Requirement		**Testing Procedure Description**		**Result**
CD Player	Play	Play one CD track		Pass
		Play CD continually		Pass
		Pause		Pass
		Stop		Pass
		Play next track		Pass
		Play previous track		Pass
		Play specified track		Pass
		Fast forward		Fail
		Rewind		Pass
		Play from specified position		Pass

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Table 2.8.4 Applications-Sound & Video			Page2	Total 3
Requirement		**Testing Procedure Description**	**Result**	
CD Player	Setting	Set track property	Pass	
		Set preference	Pass	
		Eject CD	Pass	
	Volume	Volume up	Pass	
		Volume down	Pass	
Totem Movie Player	Video format	Support mpeg1 format	Pass	
		Support mpeg2 format	Pass	
		Support avi format	Pass	
		Support VCD format	Pass	
	Play	Play	Pass	
		Pause	Pass	
		Stop	Pass	
	Edit	Edit preference	Pass	
		Take screenshot	Pass	
		Edit playlist	Pass	
	View	Full screen	Pass	
		Fit window	Pass	
	Go	Next chapter/Movie	Pass	
		Previous chapter/Movie	Pass	
		Skip forward	Pass	
		Skip backward	Pass	
		Skip to specified position	Pass	
		Play from specified position	Pass	

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Table 2.8.4 Applications-Sound & Video			Page3	Total 3
Requirement		**Testing Procedure Description**	**Result**	
Totem Movie Player	Sound	Select language	Pass	
		Control volume	Pass	
Sound Recorder		Create file	Pass	
		Open file	Pass	
		Save file	Pass	
		Record file	Fail	
		Play recorded file	Fail	
Recording level monitor		Display recording level	Fail	
Music Player		Import music	Fail	
		Edit playlist	Pass	
		Edit preference	Pass	
		Play music	Pass	
		Display list	Pass	
Sound Juice CD Ripper		Extract CD	Pass	
		Set preference	Pass	
Volume Control		Set playback volume	Pass	
		Set capture volume	Pass	
		Set preference	Pass	
		Change sound device	Pass	
		Set mute	Pass	
		Set sub channel	Pass	
Volume Monitor		Display volume	Pass	

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Table 2.8.5 Applications-System Tools		Page1	Total 2
Requirement	**Testing Procedure Description**		**Result**
New Login	Login as new user		Pass
	Login as current user		Pass
	Switch user		Pass
Network Tools	Device Setting		Pass
	Ping Command		Pass
	Netstat		Pass
	Traceroute		Pass
	Port scan		Pass
	Lookup		Pass
	Finger		Pass
	Whois		Pass
	Edit operation		Pass
Bug Report Tool	Connect to Ubuntu Bugzilla		Pass
Terminal	File	Open terminal	Pass
		Open tab	Pass
		New profile	Pass
		Close tab	Pass
	Edit	copy	Pass
		Paste	Pass
		Edit profile	Pass
		Keyboard shortcuts	Pass
		Edit current profile	Pass
	View	Full screen	Pass
		Show menubar	Pass

Table 2.8.5 Applications-System Tools			Page2	Total 2
Requirement		**Testing Procedure Description**		**Result**
Terminal	View	Zoom in		Pass
		Zoom out		Pass
		Normal size		Pass
	Terminal	Execute command		Pass
		Change profile		Pass
		Set title		Pass
		Set character encoding		Pass
		Reset		Pass
		Reset and clear		Pass
	Tabs	View previous tab		Pass
		View next tab		Pass
		View specified tab		Pass
Configuration Editor	File	New window		Pass
		Close window		Pass
	Edit	Edit key value		Pass
		Copy key name		Pass
		List recent keys		Pass
		Find		Pass
	Bookmark	Add bookmark		Pass
		Edit bookmark		Pass
	View	Display tree viewer		Pass
		Display specified key value		Pass

Table 2.8.6 Applications-Accessories			Page1	Total 5
Requirement		**Testing Procedure Description**		**Result**
Dictionary	Dictionary	Look up word		Pass
		Print result		Pass
	Edit	Cut		Pass
		Copy		Pass
		Paste		Pass
		Select all		Pass
		Find		Pass
		Preferences		Pass
	View	View Spelling window		Pass
		Close Spelling window		Pass
Character Map	View	By Script		Pass
		By unicode block		Pass
		Snap columns to power of two		Pass
		Zoom in		Pass
		Zoom out		Pass
		Normal size		Pass
	Search	Find		Pass
		Find next		Pass
		Find previous		Pass
	Go	Next character		Pass
		Previous character		Pass
		Next script		Pass
		Previous script		Pass
	Copy text	Copy text to application		Pass

Table 2.8.6 Applications-Accessories			Page2	Total 5
Requirement		**Testing Procedure Description**		**Result**
Archive manager	Archive file	New		Pass
		Open		Pass
		Open recent file		Pass
		Save as		Pass
		Rename		Pass
		Copy		Pass
		Move		Pass
		Move to Trash		Pass
		Test integrity		Pass
		View property		Pass
		Close		Pass
		Quit		Pass
	Edit	Add file		Fail
		Add folder		Pass
		Extract		Pass
		Cut		Pass
		Copy		Pass
		Paste		Pass
		Rename		Pass
		Delete		Pass

Table 2.8.6 Applications-Accessories			Page3	Total 5
Requirement		**Testing Procedure Description**		**Result**
Archive manager	Edit	Select all		Pass
		Deselect all		Pass
		Open files		Pass
		View file		Pass
		Set password		Pass
	View	Toolbar		Pass
		Statusbar		Pass
		Stop		Pass
		Refresh		Pass
		View all files		Pass
		View as a folder		Pass
		Arrange files		Pass
		View last output		Pass
Text Editor	File	New		Pass
		Open		Pass
		Open location		Pass
		Save		Pass
		Save as		Pass
		Revert		Pass
		Page Setup		Pass
		Print preview		Fail
		Print		Pass
		View recent file list		Pass

Table 2.8.6 Applications-Accessories			Page4	Total 5
Requirement		**Testing Procedure Description**		**Result**
Text Editor	File	Close		Pass
		Quit		Pass
	Edit	Undo		Pass
		Redo		Pass
		Cut		Pass
		Copy		Pass
		Paste		Pass
		Delete		Pass
		Select all		Pass
		Preference		Pass
	View	Toolbar		Pass
		Statusbar		Pass
		Output window		Pass
		Customize toolbar		Pass
		Highlight mode		Pass
	Search	Find		Pass
		Find next		Pass
		Find previous		Pass
		Replace		Pass
		Go to line		Pass
	Document	Save all		Pass
		Close all		Pass
		Move to new window		Pass
		Current file list		Pass

Table 2.8.6 Applications-Accessories			Page5	Total 5
Requirement		**Testing Procedure Description**		**Result**
Calculator	Edit	Copy		Pass
		Paste		Pass
		Insert ASCII value		Pass
	View	Basic		Pass
		Advanced		Pass
		Scientific		Pass
		Show Trailing Zeroes		Pass
		Show Thousands Separator		Pass
		Memory Registers		Pass
	Calculator	Input data		Pass
		Display result		Pass
		support basic calculation		Pass
		Provide trigonometric function		Pass
		Provide bracket function		Pass
		Implement multiplication&division first,addition&subtraction last		Pass

Table2.9 Application Software Integration		Page1	Total 4
Requirement	**Testing Procedure Description**		**Result**
Application Synthesis Utilization	Directly using ralating eog opens jpg file in mail attachment		Pass
	Directly using ralating eog opens bmp file in mail attachment		Pass
	Directly using ralating eog opens gif file in mail attachment		Pass
	Directly using ralating multimedia player opens mp3 file in mail attachment		Pass
	Directly using ralating multimedia player opens mpeg file in mail attachment		Pass

Table2.9 Application Software Integration			Page2	Total 4
Requirement		**Testing Procedure Description**		**Result**
Application Synthesis Utilization		Directly using ralating multimedia player opens avi file in mail attachment		Pass
		Directly using ralating text editor opens text file in mail attachment		Pass
		Directly opens website in the mail attachment through the browser		Fail
		Directly opens FTP in the mail attachment through the browser		Fail
		Open the picture which is edited by GIMP image editor through the image viewer		Pass
		Open the picture through the browser		Pass
		Open the picture through the GIMP image editor		Pass
Application To Systerm Cutboard Integration	Transmission Text Object	Transmission text to the text editor		Pass
		Get the text from the text editor		Pass
		Transmission text to the browser		Pass
		Get the text from the browser		Pass
		Transmission text to the email		Pass
		Get the text from the email		Pass
	Transmission Picture Object	Transmission picture to the GIMP image editor		Pass
		Get the picture from the GIMP image editor		Pass
	Transmission File Object	In the file browser		Pass
		Between the file browsers		Pass
		Between the file browser and the desktop		Pass
		Between the file browser and the browser		Pass
Application Start-up	Application Start-up	Add-ons		Pass
		Internet software		Pass
		Video and audio software		Pass
		Graph software		Pass

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Table 2.9 Application Software Integration			Page3	Total 4
Requirement		**Testing Procedure Description**		**Result**
Application Start-up	Application Start-up	System tool software		Pass
		Game software		Pass
	Application Tow Start-up	Calculator		Pass
		Text Editor		Pass
		Archive Manager		Pass
		Fi.le Browser		Pass
		Evolution Mail		Pass
		Gaim Internet Messenger		Pass
		Firefox Web Browser		Pass
		GNOME BitTorrent		Pass
		Mutimedia Player		Pass
		PDF Reader		Pass
		GIMP Image Editor		Pass
		Image Viewer		Pass
		Printing 打印		Pass
		Burning disk tool		Pass
		Network option		Pass
		Systerm Monitor		Pass
		System Log		Pass
		Root Terminal		Pass
Appliction And Systerm Words Integration	Display	Web Browser		Pass
		Evolution Mail		Pass
		Text Editor		Pass
		Fi.le Browser		Pass

Table 2.9 Application Software Integration			Page4	Total 4
Requirement		**Testing Procedure Description**		**Result**
Appliction And Systerm Words Integration	Input method	Web Browser		Pass
		Evolution Mail		Pass
		Text Editor		Pass
		Fi.le Browser		Pass
		GIMP Image Editor		Pass
Appliction And Printing management Integration		Web Browser		Fail
		Evolution Mail		Pass
		Text Editor		Pass
		PDF reader		Pass
		GIMP Image Editor		Pass

3. Reliability

Table 3 Reliability		Page1	Total 1
Requirement	**Testing Procedure Description**	**Result**	
Maturity	Software exception will not make the system invalid	Pass	
	The system neither break down nor lose data when users input unlawful commands regulated definitely in user documents.	Pass	
	Software or data will not be destroyed by power cut,exception exit , network exception interrupt and etc.	Pass	
	System resource are used with reason and no memory leak happens.	Pass	
Fault tolerance	Screen char or action which perhaps results in deadly error or system fault.Show prompt to improper operation and prompt correctly.	Pass	
	Timely prompt should be showed if system exception happen due to exterior reason,such as IP collision and DNS change	Pass	
Convenient for restoring	When the system break down,it should be able to rebuild quickly and record core detailed information.Thus system administrator may analyze and look for error..	Pass	
Data integrality	If lawless data is input,show succinct and exact prompt informationin in Chinese. show help informationwhen necessary	Pass	
Data backup and restore	Support backuping and restoring data,backuping is convenient and there are multifold backuping method	Pass	

4. Usability

Table 4 Usability		Page1	Total 1
Requirement	**Testing Procedure Description**		**Result**
Convenient for understanding	Helping users understand and operate by proper term, graphics ,background information and help		Pass
	Prompt the cause that result in error and how to correct it in error message		Pass
Convenient for browsing	Provide necessary information for directing current run-time status of program		Pass
	Screen prompt,input and output is designed normatively and pellucid		Pass
Convenient for operating	Manipulation which may cause serious aftereffect can be undone ,or sound a warning and require a affirmance before executing.		Fail
	Provide accessorial input method such as standby value and default value		Pass
	Manipulate easily and support standard mouse,keyboard and shortcut key		Pass

5. Maintenance

Table 5 Maintenance		Page1	Total 1
Requirement	**Testing Procedure Description**		**Result**
Convenient for analyzing	Show a analysis clew when bug or invalidation take places		Pass
Convenient for altering	Be able to modify values of the corresponding configuration files,libraby and table expediently		Pass
	Support Plug-in interface,be able to add right button menu item and shortcut for software		Pass
	Be able to install development envirement		Pass

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6. Compatibility

Table 6 Compatibility		Page1	Total 4
Requirement		**Testing Procedure Description**	**Result**
Compatibility	Printer compatibility	Brother HL-2060	Pass
		CANON S300	Pass
		CANON LBP 3200	Fail
		CANON LBP 800	Fail
		CANON LBP 810	Fail
		CANON BJC-4650	Fail
		CANON S100SP	Fail
		EPSON EPL 5900L	Fail
		EPSON EPL 1220	Fail
		EPSON LQ-670	Pass
		EPSON LQ-1600KIII	Pass
		EPSON LQ-1900KII	Pass
		EPSON STYLUS C80	Pass
		EPSON STYLUS PHOTO 810	Pass
		EPSON STYLUS PHOTO 1290	Pass

Table 6 Compatibility			Page2	Total 4
Requirement		**Testing Procedure Description**		**Result**
Compatibility	Printer compatibility	HP DESKJET 5748		Fail
		HP DESKJET 6848		Fail
		HP LASERJET 1010		Pass
		HP LASERJET 1012		Pass
		HP LASERJET 1160		Fail
		HP LASERJET 1320		Fail
		HP DESKJET 845C		Pass
		HP DESKJET 990 CXI		Pass
		HP DESKJET 1125C		Pass
		HP DESKJET 1220C		Pass
		HP DESKJET 3420		Pass
		HP DESKJET 3848		Fail
		HP DESKJET 5550		Pass
		HP DESKJET 948C		Pass
		HP LASERJET 1015		Pass
		HP LASERJET 2200D		Pass
		HP OFFICEJET V40		Pass
		HP OFFICEJET 725C		Fail
		HP PSC 750		Pass
		LEXMARK OPTRA M412		Pass
		LEXMARK T522		Fail
		LEXMARK X83		Fail
		LEXMARK Z35		Fail
		LEXMARK Z55		Fail

Table 6 Compatibility		Testing Procedure Description	Page3	Total 4
Requirement		**Testing Procedure Description**		**Result**
Compatibility	Printer compatibility	Lenovo LJ 5500N		Fail
		Lenovo LJ 6012 MFP		Fail
		Lenovo LJ 8212N		Pass
		Lenovo LJ 8500C		Fail
		Lenovo M5400		Fail
		Lenovo LJ2500		Fail
		XEROX DOCUPRINT 210		Fail
		XEROX PHASER 3110		Pass
		XEROX Phaser 3121		Fail
		SAMSUNG ML-2151N		Pass
		SAMSUNG SCX-1150F		Fail
	Usb flash disk	TSINGHUA TONGFANG TIANSUO 128M		Pass
		TSINGHUA TONGFANG TIANSUO 256M		Pass
		Newman V series 256M		Pass
		Newman V11series 128M		Pass
		HUAQI UF-P202S 256M		Pass
		SI-BAY BUSLINK V8 256M		Pass
		SI-BAY BUSLINK V8 128M		Pass
		HYUNDAI HYV－1008B 256M		Pass
		HYUNDAI HYV－1008B1 128M		Pass
		SONY USM 256A		Pass
		SONY USM 128A		Pass

Table 6 Compatibility			**Page4**	**Total 4**
Requirement		**Testing Procedure Description**		**Result**
Compatibility	Digital camera	OLYMPUS u[mju:]400 DIGITAL		Pass
		FUJI F700		Pass
		SONY DSC-T3		Pass
		SONY DSC-V1		Pass

7. Efficiency

Table 7 Efficiency			**Page1**	**Total 4**
Requirement		**Testing Procedure Description**		**Result**
Time characteristic	Startup and shutdown	From startup to finish loading all the default service		Appendix 1
		Shutting down from GUI		Appendix 1
	Read and write file	Reading and writing a big file(500M) on harddisk		Appendix 1
		Reading and writing lots of small file2000 250K) on hard disk		Appendix 1
		Delete a big file(500M) on hard disk		Appendix 1
		Deleting lots of small file2000 250K) on hard disk		Appendix 1
	Startuping time of main function of the system	Open "computer" completely		Appendix 1
		Open "network server" completely		Appendix 1
		Open "home folder" completely		Appendix 1
		Open "trash" completely		Appendix 1
		Open "Device Manager" completely		Appendix 1
		Open "file brower" completely		Appendix 1
		Open "Totem movie player" completely		Appendix 1

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Table 7 Efficiency			Page2	Total 4
Requirement		**Testing Procedure Description**		**Result**
Time characteristic	Startuping time of main function of the system	Open "browser" completely		Appendix 1
		Open "evolution mail" completely		Appendix 1
		Open "text editor" completely		Appendix 1
		Open "gThumb image viewer" completely		Appendix 1
		Open "image viewer" completely		Appendix 1
		Open "OpenOffice Word Processor" completely		Appendix 1
		Open "package manager" completely		Appendix 1
		Open "system monitor" completely		Appendix 1
		Open "terminal" completely		Appendix 1
		Searching for a appointed file named grub.vim under terminal		Appendix 1
Resource characteristic	Hard disk	Disk space used by OS setuped completed		Appendix 2
	CPU use rate	During open "computer"		Appendix 2
		During Open "network server"		Appendix 2
		During "home folder"		Appendix 2
		During "trash"		Appendix 2
		During "Device Manager"		Appendix 2
		During Open "file brower"		Appendix 2
		During Open "Totem movie player"		Appendix 2
		During Open "browser"		Appendix 2
		During Open "evolution mail"		Appendix 2
		During Open "OpenOffice Word Processor"		Appendix 2

Table 7 Efficiency		Page3	Total 4
Requirement		**Testing Procedure Description**	**Result**
Resource characteristic	CPU	During Open "text editor"	Appendix 2
		During Open "gThumb image viewer"	Appendix 2
		During Open "image viewer"	Appendix 2
		During Open "package manager"	Appendix 2
		During Open "system monitor"	Appendix 2
		During Open "terminal"	Appendix 2
	Memory use quantity	During open "computer"	Appendix 2
		During Open "network server"	Appendix 2
		During "home folder"	Appendix 2
		During "trash"	Appendix 2
		During "Device Manager"	Appendix 2
		During Open "file brower"	Appendix 2
		During Open "Totem movie player"	Appendix 2
		During Open "browser"	Appendix 2
		During Open "evolution mail"	Appendix 2
		During Open "OpenOffice Word Processor"	Appendix 2
		During Open "text editor"	Appendix 2
		During Open "gThumb image viewer"	Appendix 2
		During Open "image viewer"	Appendix 2
		During Open "package manager"	Appendix 2
		During Open "system monitor"	Appendix 2
		During Open "terminal"	Appendix 2
		From startup to finish loading all the default service	Appendix 2

Table 7 Efficiency		Page4	Total 4
Requirement	**Testing Procedure Description**		**Result**
Network characteristic	Time cost in browsing the SOHU homepage		Appendix 3
	Time cost in downloading a 500M file by FTP		Appendix 3
	Time cost in downloading 2000 250K file by FTP		Appendix 3
	Time cost in uploading a 500M file by FTP		Appendix 3
	Time cost in uploading 2000 250K file by FTP		Appendix 3

8. Chinese characteristic

Table 8 Chinese characteristic		Page1	Total 1
Requirement	**Testing Procedure Description**		**Result**
Chinese display	Dialog box,menu,icon,window and other interface		Fail
	Information hint and help document can satisfy Chinese using habit		Pass
Localization degree	The system is localized completely		Fail
Encoding supporting degree	Support GB2312 encoding		Pass
	Support GB 13000.1 encoding		Fail
	Support GB 18030 encoding		Fail

Appendix 1 Performance – Timing

Test Item 1: Time used to load all default services during startup

Procedure: Start the system, record the time used to load all default services. Try 10 times.

Result:

开机到操作界面加载完所有默认服务

时间（秒）

次数（次）
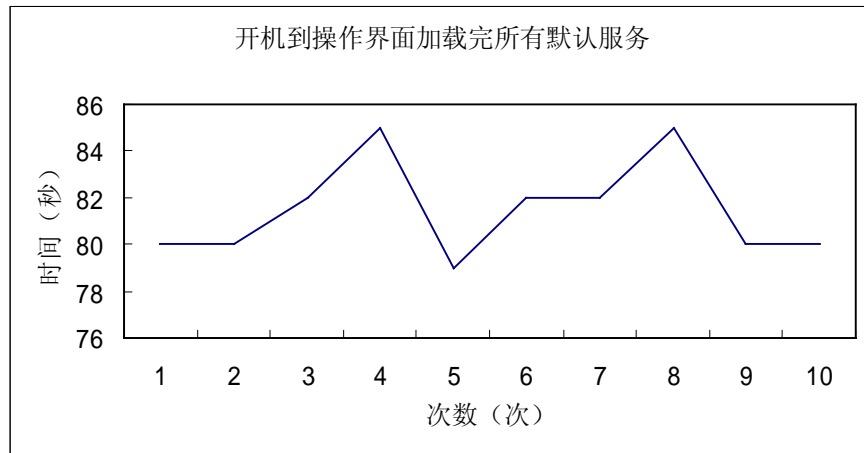
Figure 1 - Time used to load all default services during startup

Test Item 2: GUI showdown time

Procedure: Shut down the system from GUI.

Result:
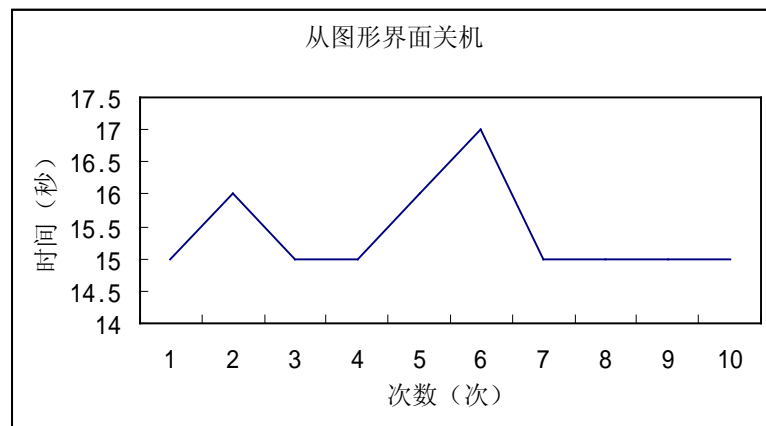
从图形界面关机

时间（秒）

次数（次）

Figure 2 - GUI showdown time

Test Item 3: Time used to copy a 500MB file

Procedure: Start Terminal, run command to copy a 500MB file from "/home" to "/".

Result:
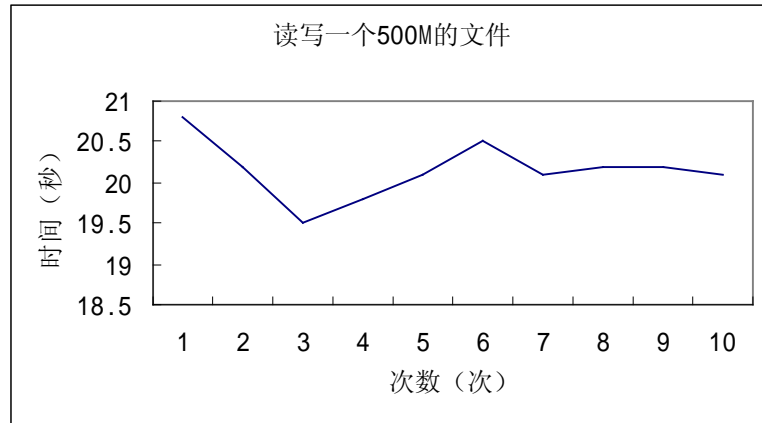
Figure 3 - Time used to copy a 500MB file

Test Item 4: Time used to copy 2000 small files of 250KB

Procedure: between "/home" and "/"

Result:
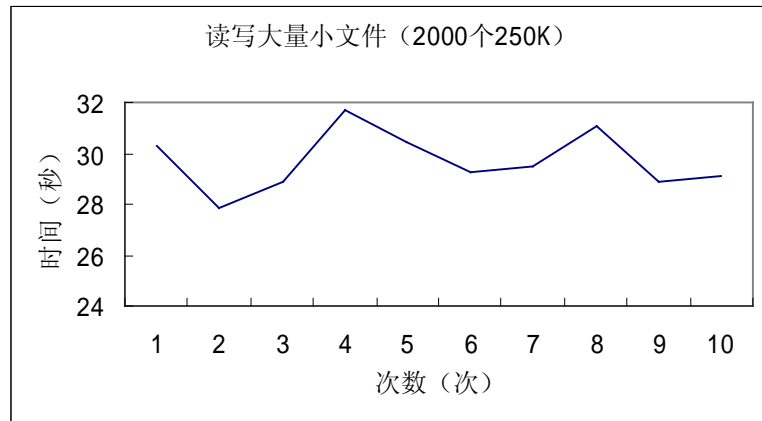
Figure 4 - Time used to copy 2000 small files of 250KB

Test Item 5: Time consumed to delete a 500MB file

Procedure:

Result:
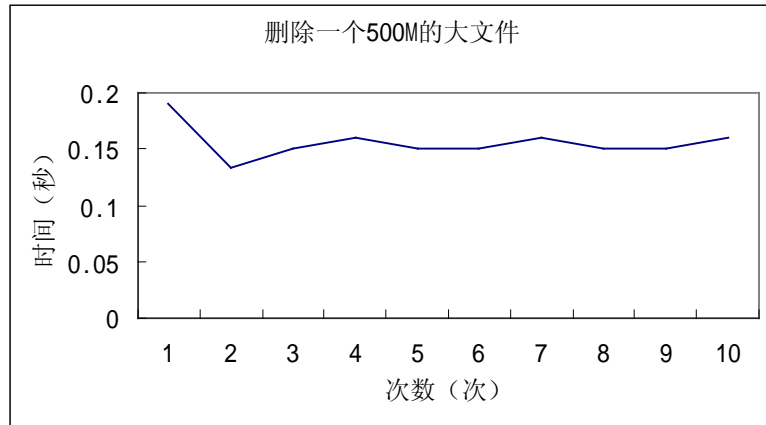
Figure 5 - Time consumed to delete a 500MB file

Test Item 6: Time used to delete 2000 250KB files

Procedure:

Result:
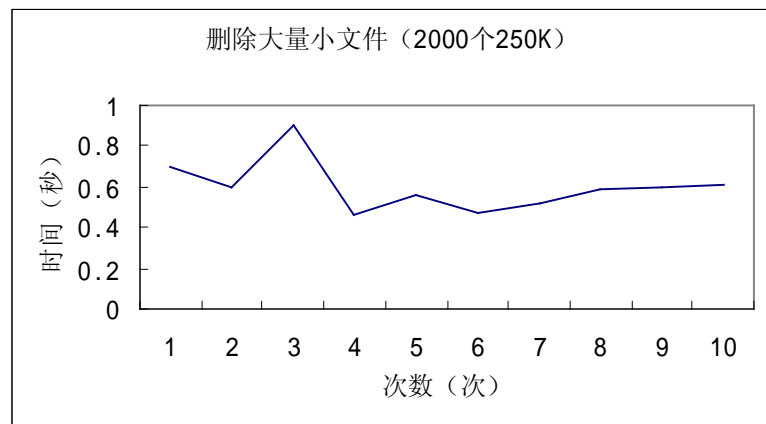
Figure 6 - Time used to delete 2000 250KB files

Test Item 7: Time used to open "Computer"

Procedure: Start Terminal, run command to open "Computer". Try 10 times and record the result.

Result:
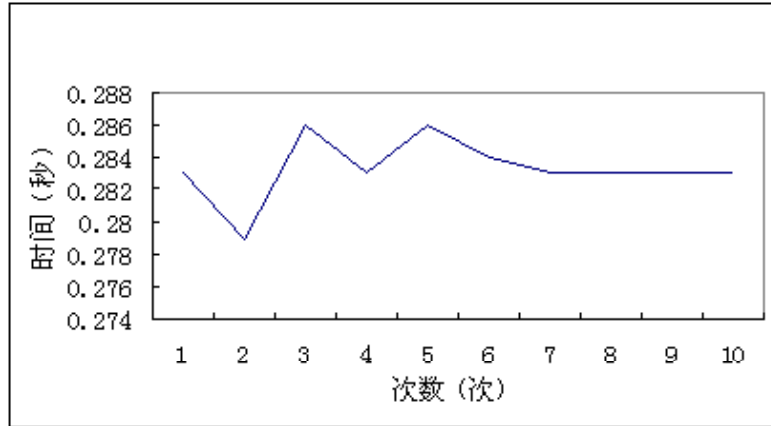
Figure 7 - Time used to open "Computer"

Test Item 8: Time used to open   "Network Servers"

Procedure: Refer to Test Item 7.
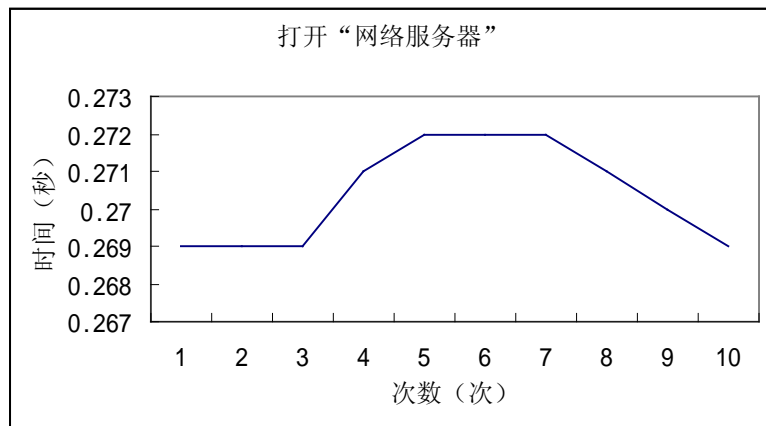
Result:

Figure 8 - Time used to open   "Network Servers"

Test Item 9: Time used to open "Home Folder"

Procedure: Refer to Test Item 7.
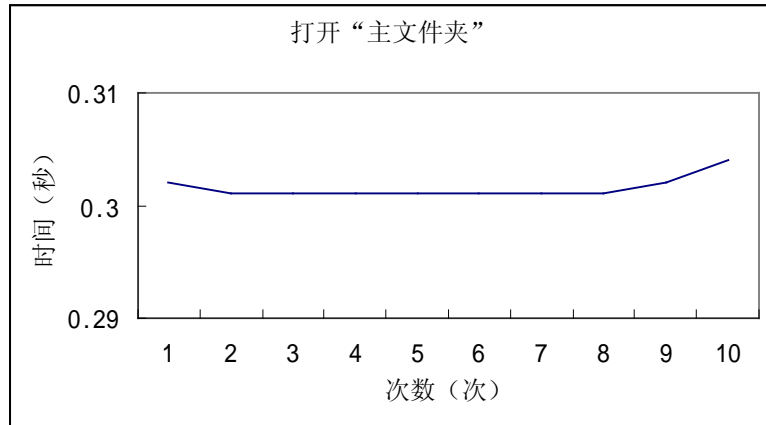
Result:

Figure 9 - Time used to open "Home Folder"

Test Item 10: Time used to open "Trash Can"

Procedure: Refer to Test Item 7.
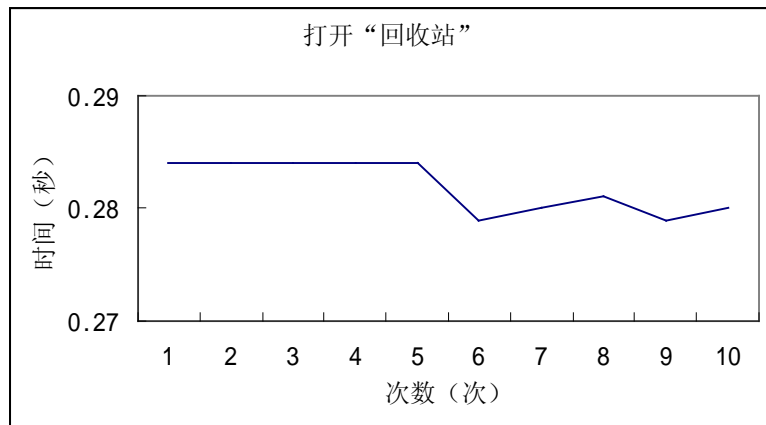
Result:

Figure 10 - Time used to open "Trash Can"

Test Item 11: Time used to start "Device Manager"

Procedure: Refer to Test Item 7.

Result:

打开"**Device Manager**"

时间（秒）

1.2

1.1

1

1 2 3 4 5 6 7 8 9 10

次数（次）
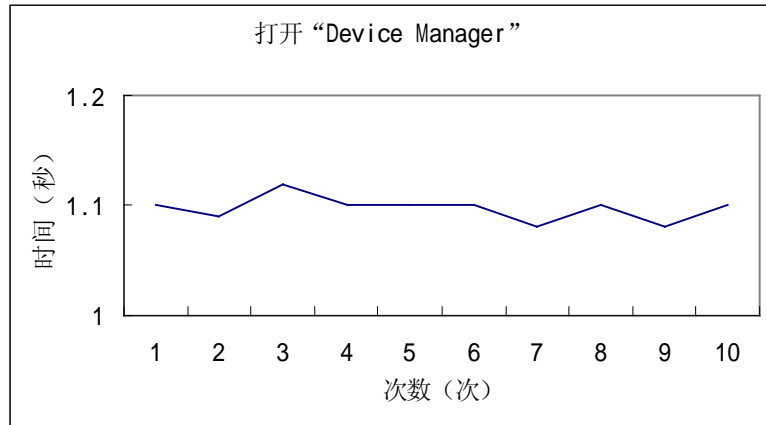
Figure 11 - Time used to start "Device Manager"

Test Item 12: Time used to start "File Management"

Procedure: Refer to Test Item 7.

Result:

打开"文件管理"

时间（秒）

0.9
0.85
0.8
0.75
0.7

1 2 3 4 5 6 7 8 9 10

次数（次）
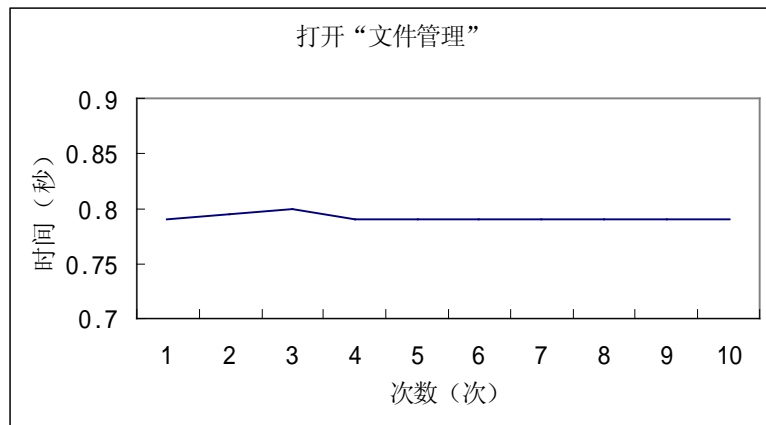
Figure 12 - Time used to start "File Management"

Test Item 13: Time used to start "Totem Movie Player"

Procedure: Refer to Test Item 7.
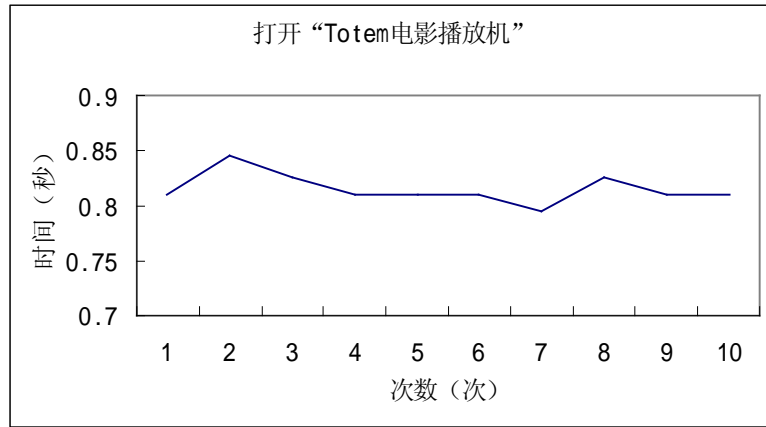
Result:

Figure 13 - Time used to start "Totem Movie Player"

Test Item 14: Time used to start "Firefox"

Procedure: Refer to Test Item 7.
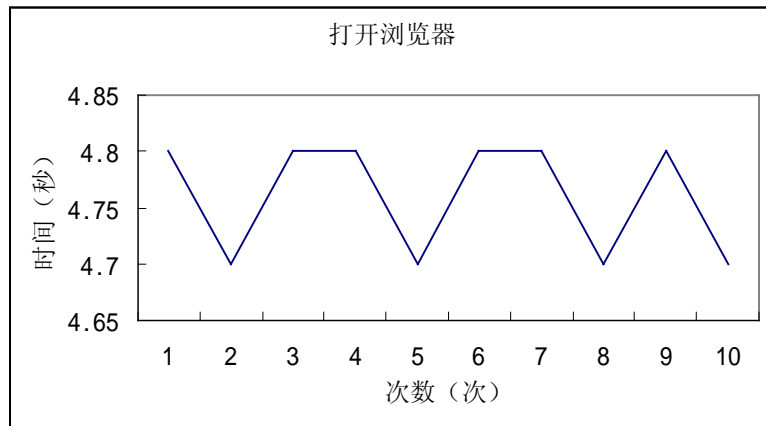
Result:

Figure 14 - Time used to start "Firefox"

Test Item 15: Time used to start Email client

Procedure: Refer to Test Item 7.
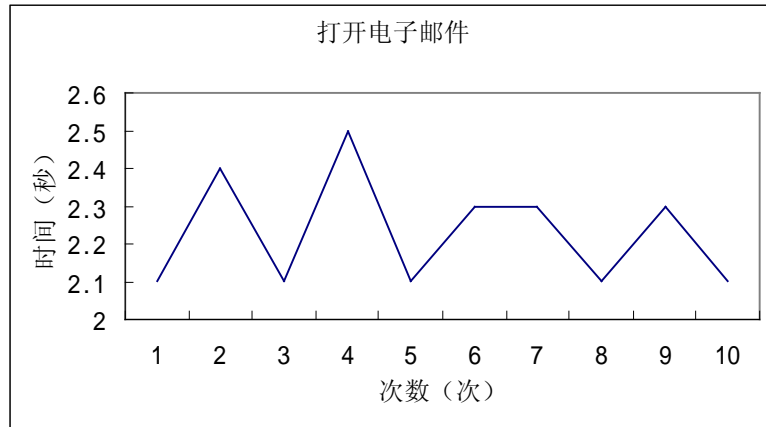
Result:

Figure 15 - Time used to start Email client

Test Item 16: Time used to start "OpenOffice Word Processor"

Procedure: Refer to Test Item 7.
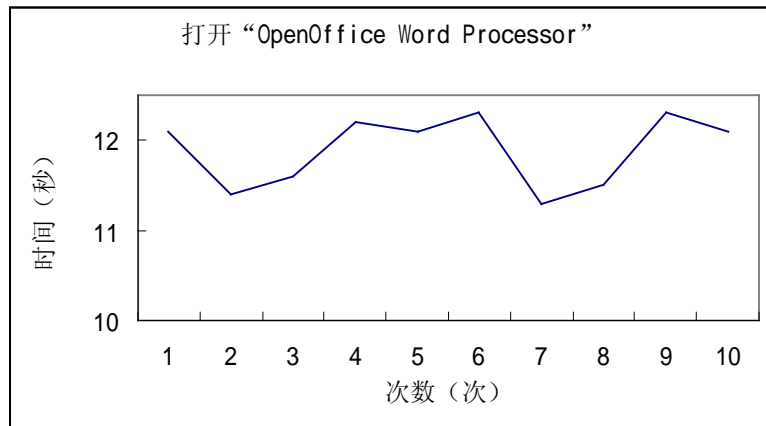
Result:

Figure 16 - Time used to start "OpenOffice Word Processor"

Test Item 17: Time used to start "Text Editor"

Procedure: Refer to Test Item 7.

Result:

打开"文本编辑器"
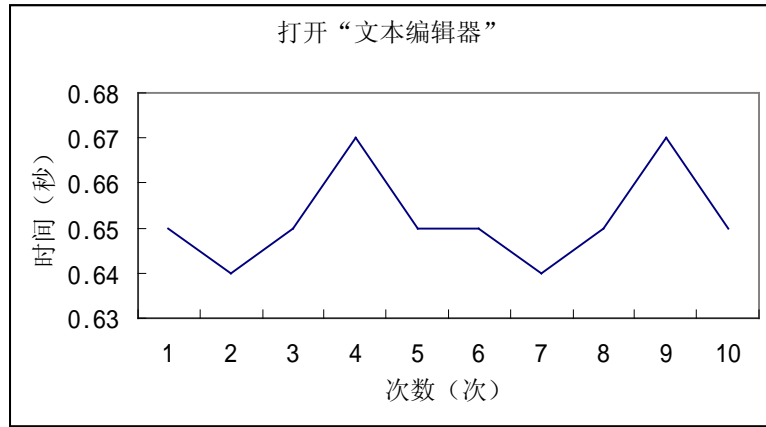
Figure 17 - Time used to start "Text Editor"

Test Item 18: Time used to start "gThumb Image Viewer"

Procedure: Refer to Test Item 7.

Result:

打开"gThumb图像浏览器"
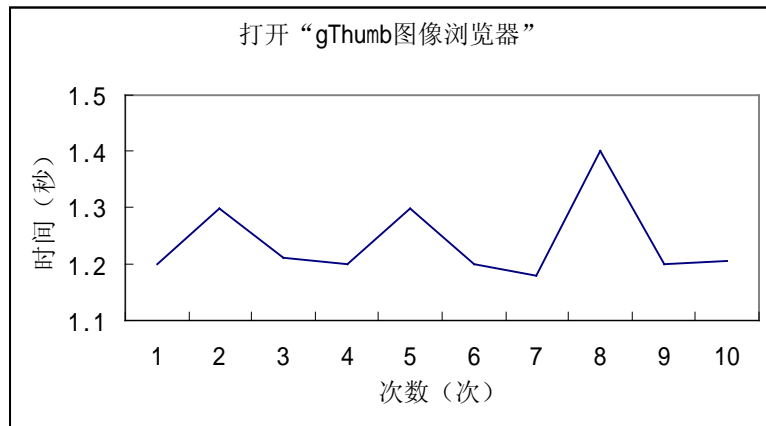
Figure 18 - Time used to start "gThumb Image Viewer"

Test Item 19: Time used to start "Image Viewer"

Procedure:

Result:
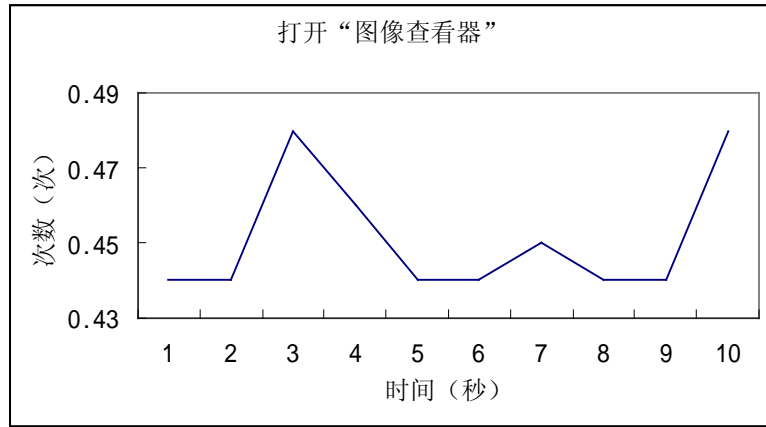
Figure 19 - Time used to start "Image Viewer"

Test Item 20: Time used to start "Synaptic Package Manager"

Procedure: Refer to Test Item 7.
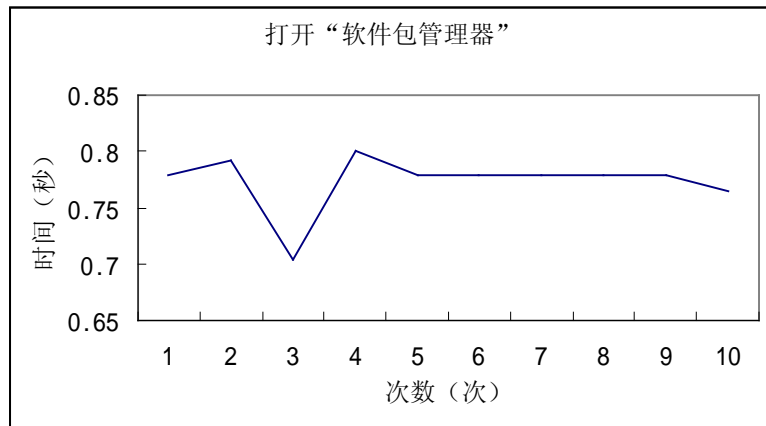
Result:

Figure 20 - Time used to start "Synaptic Package Manager"

Test Item 21: Time used to start "System Monitor"

Procedure: Refer to Test Item 7.
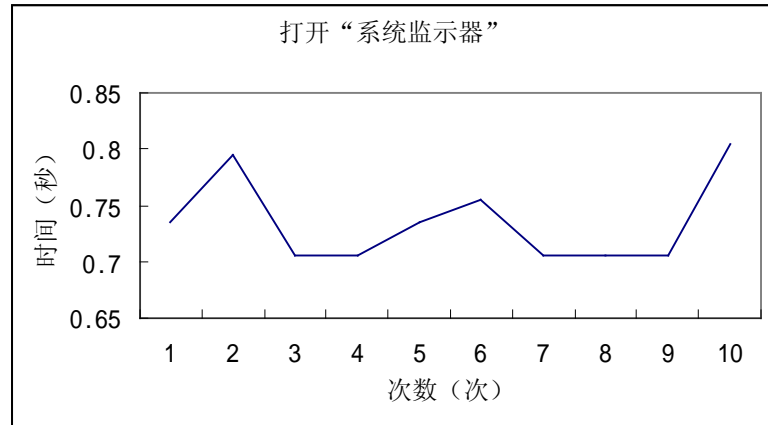
Result:

Figure 21 - Time used to start "System Monitor"

Test Item 22: Time used to start "Terminal"

Procedure: Refer to Test Item 7.

Result:
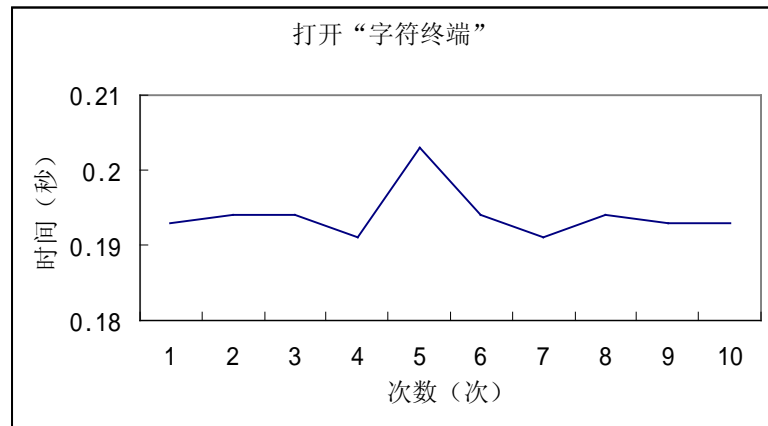
Figure 22 - Time used to start "Terminal"

Test Item 23: Find a file

Procedure: Start Terminal，run command to find a specific file: "grub.vim", record the time consumed. Try 10 times.

Result:
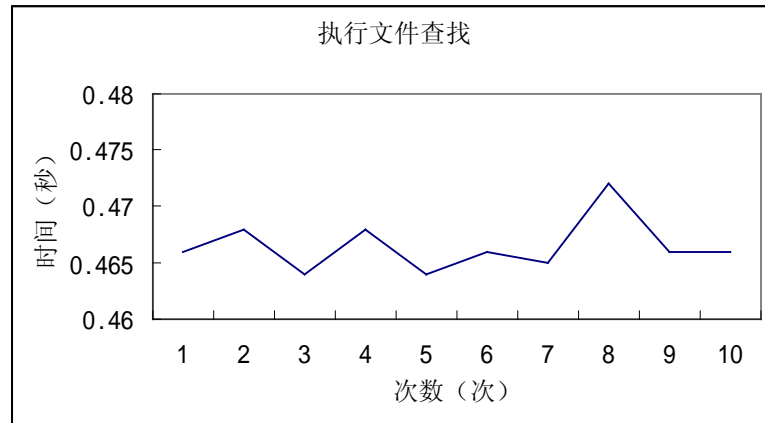
执行文件查找

时间（秒）

次数（次）

Figure 23 - Find a file

Appendix 2 Performance - Resource

Test Item 1: Installation

Procedure: Install ubuntu Linux, check the hard disk used after installation is finished.

Result:

Table 1 System installation			
Procedure	**Result (MBytes)**		
	Space used before installation	**Space used after installation**	**Total Space**
Install ubuntu	0	2972.1	2972.1

Test Item2: CPU usage when openning "Computer"

Procedure: Start Terminal，run "Top" to monitor the CPU usage; start another Terminal, run command to open "Computer". Record the cpu usage of the corresponding process.
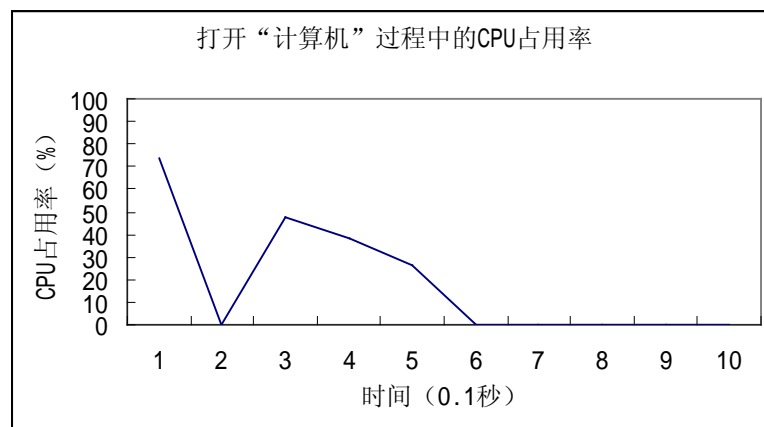
Result:

Figure 1 - CPU usage when openning "Computer"

Test Item3: CPU usage when openning "Network Servers"

Procedure: Refer to Test Item 2.
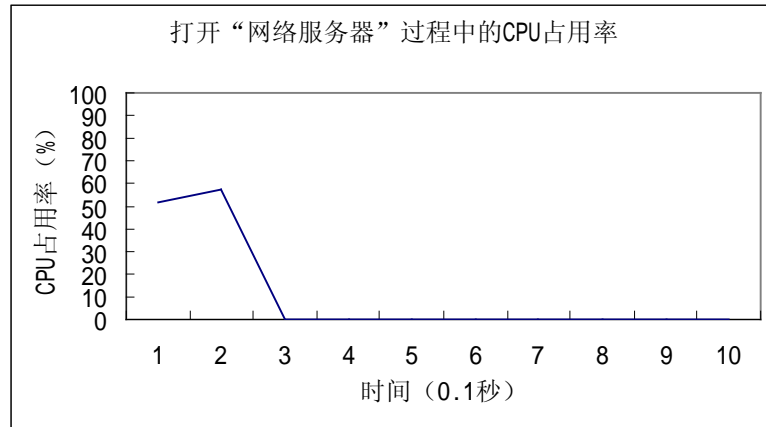
Result:

Figure 2 - CPU usage when openning "Network Servers"

Test Item 4: CPU usage when openning "Home Folder"

Procedure: Refer to Test Item 2.
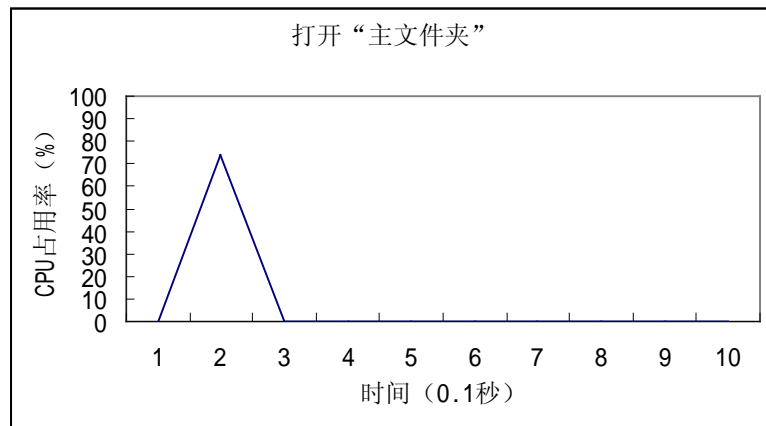
Result:

Figure 3 - 打 CPU usage when openning "Home Folder"

Test Item 5: CPU usage when openning "Trash Can"

Procedure: Refer to Test Item 2.
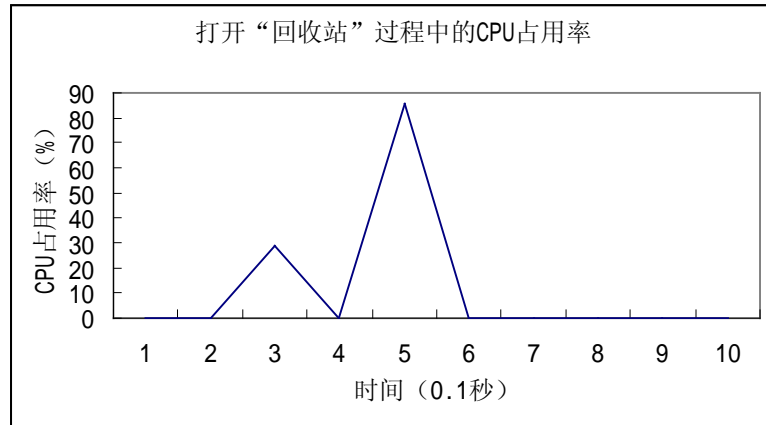
Result:

Figure 4 - CPU usage when openning "Trash Can"

Test Item 6: CPU usage when openning "Device Manager"

Procedure: Refer to Test Item 2.
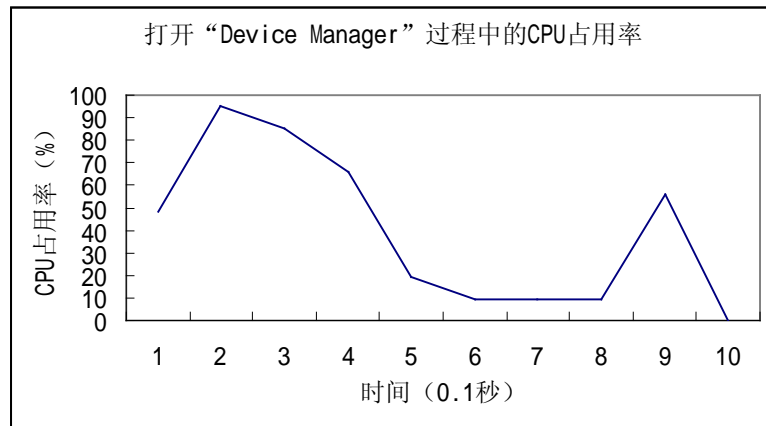
Result:

Figure 5 - CPU usage when openning "Device Manager"

Test Item 7: CPU usage when openning "Totem Movie Player"

Procedure: Refer to Test Item 2.
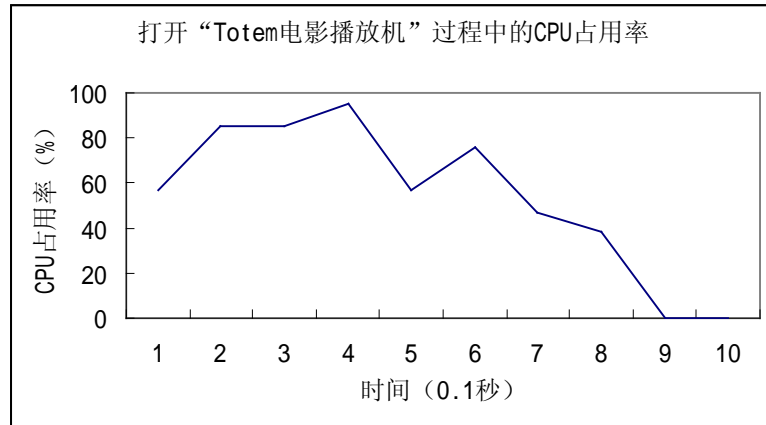
Result:

Figure 6 - CPU usage when openning "Totem Movie Player"

Test Item 8: CPU usage when openning "Firefox"

Procedure: Refer to Test Item 2.
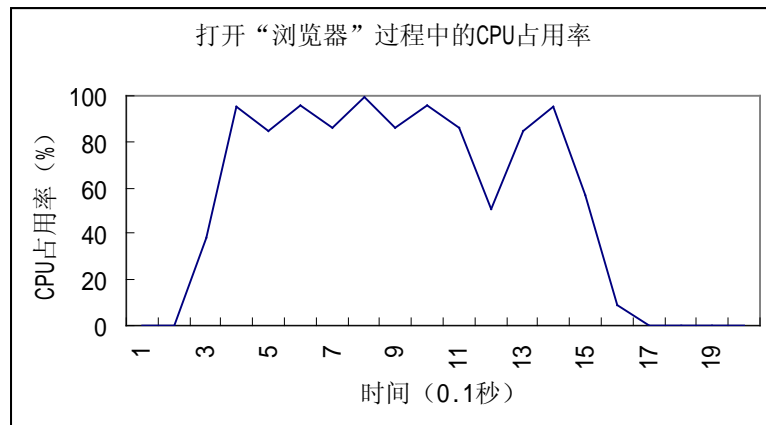
Result:

Figure 7 - CPU usage when openning "Firefox"

Test Item 9: CPU usage when openning Email client

Procedure: Refer to Test Item 2.
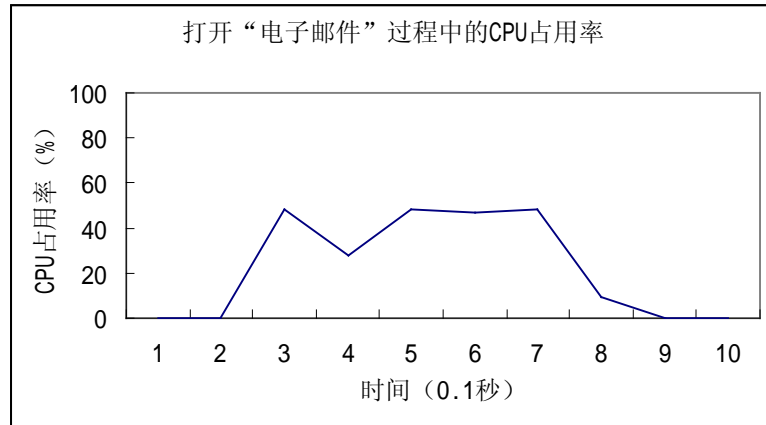
Result:

Figure 8 - CPU usage when openning Email client

Test Item 10: CPU usage when openning "Text Editor"

Procedure: Refer to Test Item 2.
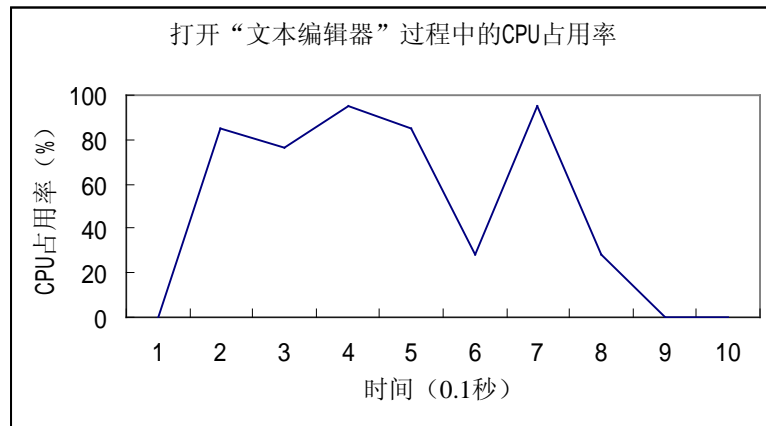
Result:

Figure 9 - CPU usage when openning "Text Editor"

Test Item 11: CPU usage when openning "GIMP"

Procedure: Refer to Test Item 2.

Result:

打开"图像编辑器"过程中的CPU占用率
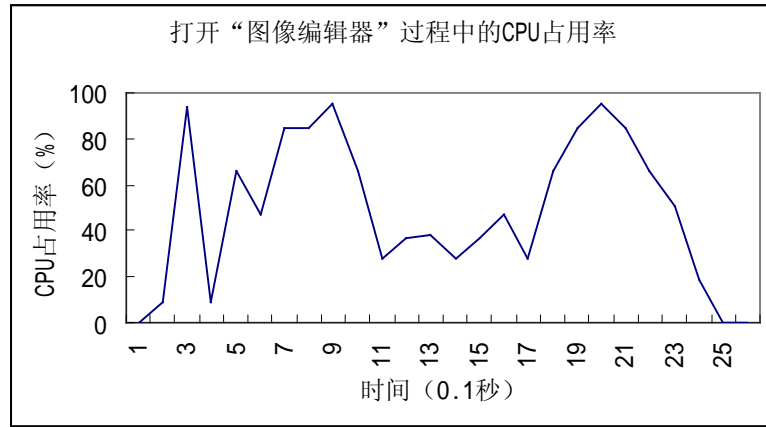
Figure 10 - CPU usage when openning "GIMP"

Test Item 12: CPU usage when openning "Image Viewer"

Procedure: Refer to Test Item 2.

Result:

打开"图像查看器"过程中的CPU占用率
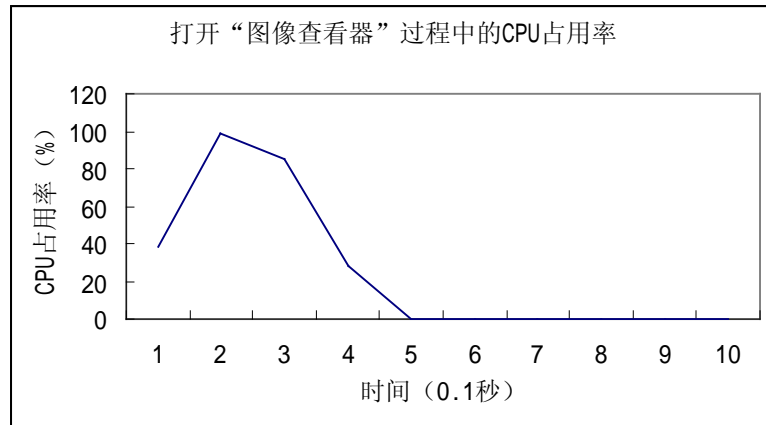
Figure 11 - CPU usage when openning "Image Viewer"

Test Item 13: CPU usage when openning "Synaptic Package Manager"

Procedure: Refer to Test Item 2.

Result:

打开"软件包管理器"过程中的CPU占用率
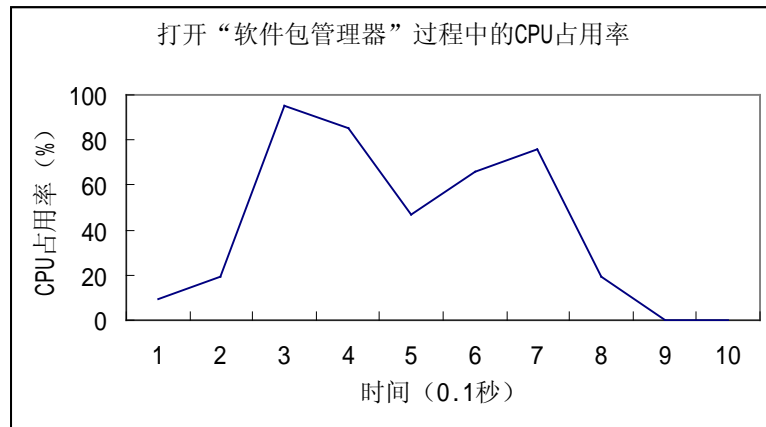
Figure 12 - CPU usage when openning "Synaptic Package Manager"

Test Item 14: CPU usage when openning "System Monitor"
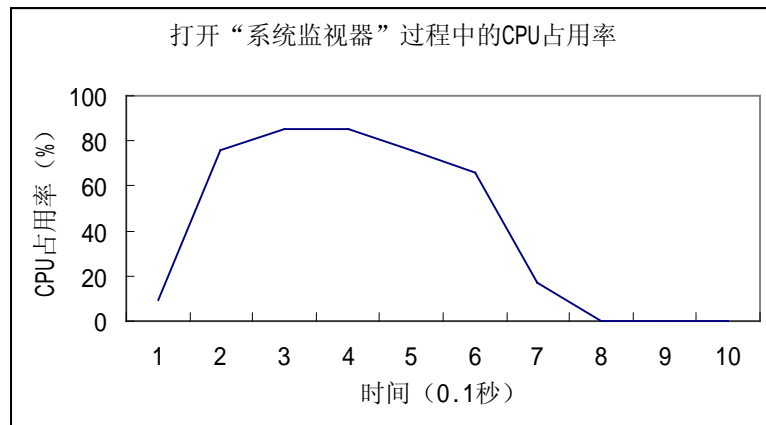
Procedure: Refer to Test Item 2.

Result:

打开"系统监视器"过程中的CPU占用率

Figure 1 - CPU usage when openning "System Monitor"

Test Item 15: CPU usage when openning "Terminal"

Procedure: Refer to Test Item 2.
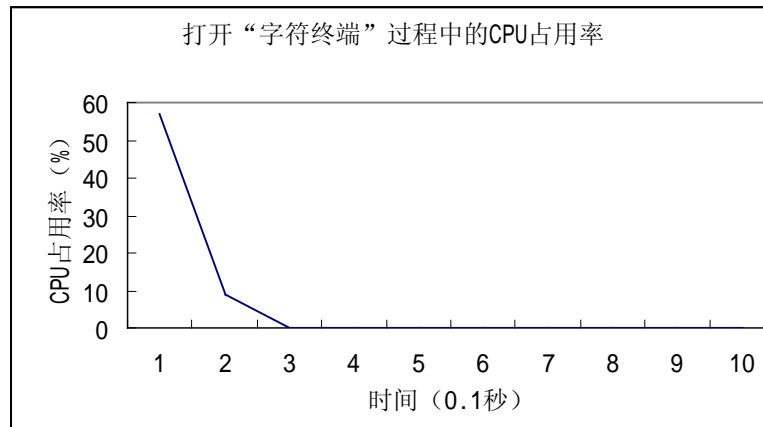
Result:

Figure 14 - CPU usage when openning "Terminal"

Test Item 16: System memory usage

Procedure:

After loading all of the default services, run command "Top" to check thesystem memory usage.

Result

Table 2 System memory usage			
Procuredure	**Result (MBytes)**		
	Memory usage before startup	**Memory usage after startup**	**System memory usage**
Memory usage	0	208.82	208.82

Test Item 17: Memory usage when openning "Computer"

Procedure: Start Terminal，run "Top" to monitor the memory usage; start another Terminal, run command to open "Computer". Record the memory usage of the corresponding process.

Result:

打开"计算机"过程中的内存占用数
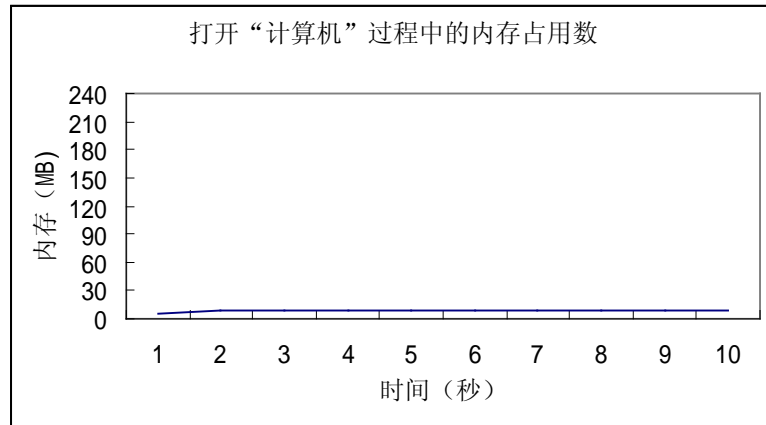
Figure 15 - Memory usage when openning "Computer"

Test Item 18: Memory usage when openning "Network Servers"

Procedure: Refer to Test Item 17.

Result:

打开"网络服务器"过程中的内存占用数
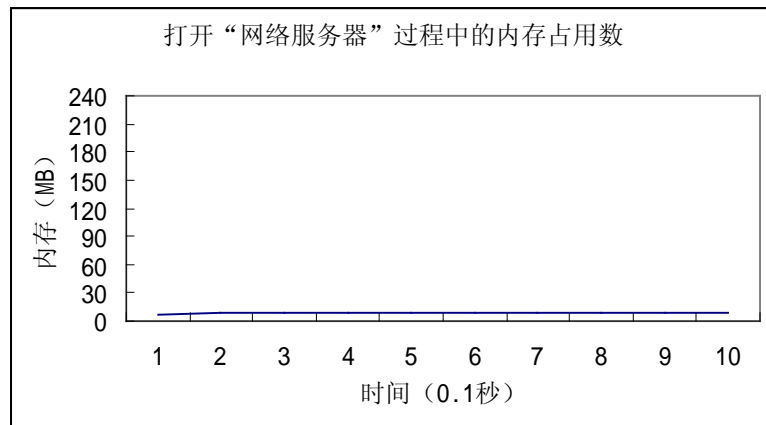
Figure 16 - Memory usage when openning "Network Servers"

Test Item 19: Memory usage when openning "Home Folder"

Procedure: Refer to Test Item 17.
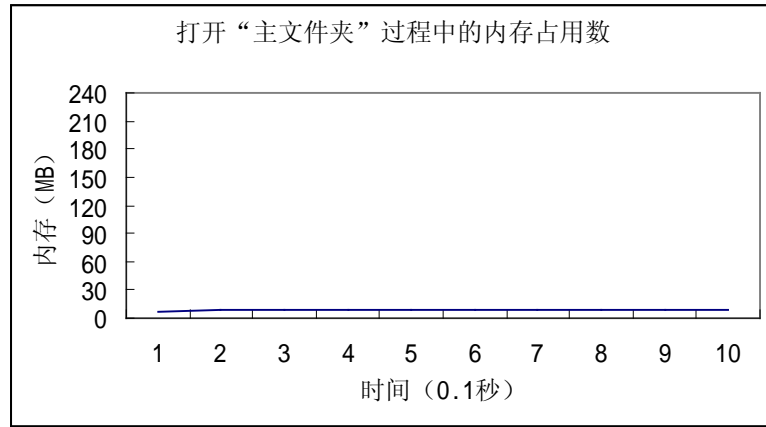
Result:

Figure 17 - Memory usage when openning "Home Folder"

Test Item 20: Memory usage when openning "Trash Can"

Procedure: Refer to Test Item 17.
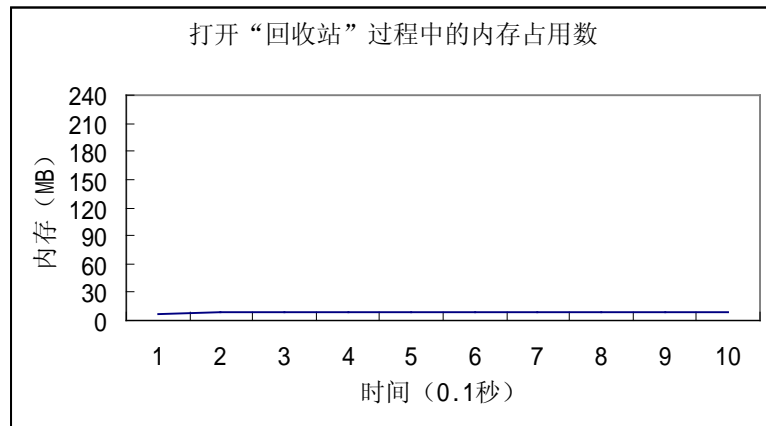
Result:

Figure 18 - Memory usage when openning "Trash Can"

Test Item 21: Memory usage when openning "Device Manager"

Procedure: Refer to Test Item 17.

Result:

打开"**Device Manager**"过程中的内存占用数
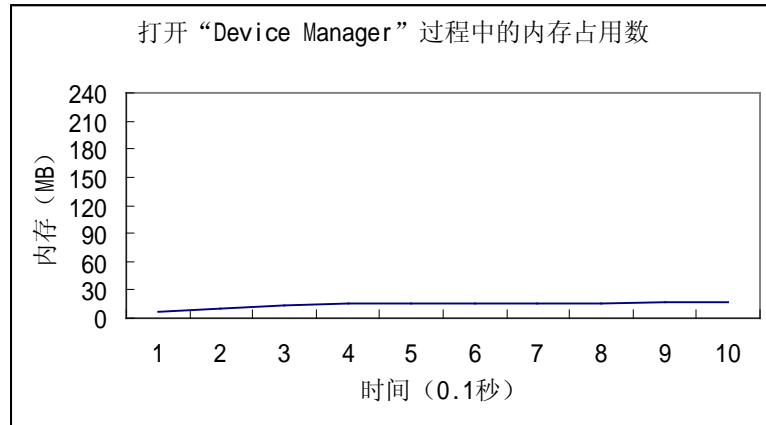
Figure 19 - Memory usage when openning "Device Manager"

Test Item 22: Memory usage when openning "Totem Movie Player"

Procedure: Refer to Test Item 17.

Result:

打开"**Totem**电影播放机"过程中的内存占用数
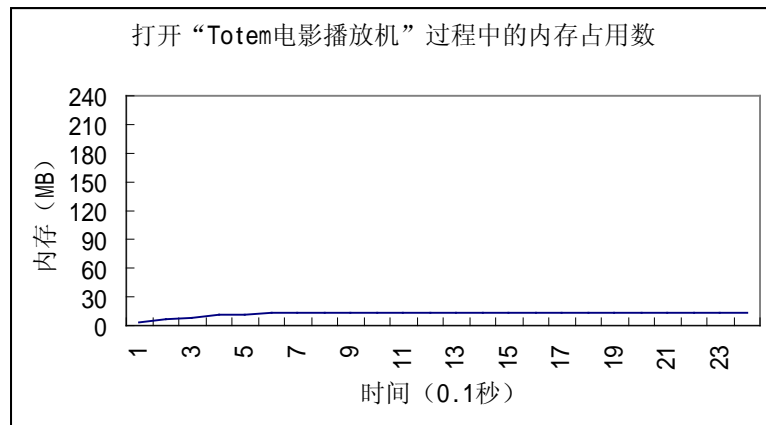
Figure 20 - Memory usage when openning "Totem Movie Player"

Test Item 23: Memory usage when openning "Firefox"

Procedure: Refer to Test Item 17.

Result:

打开"浏览器"过程中的内存占用数
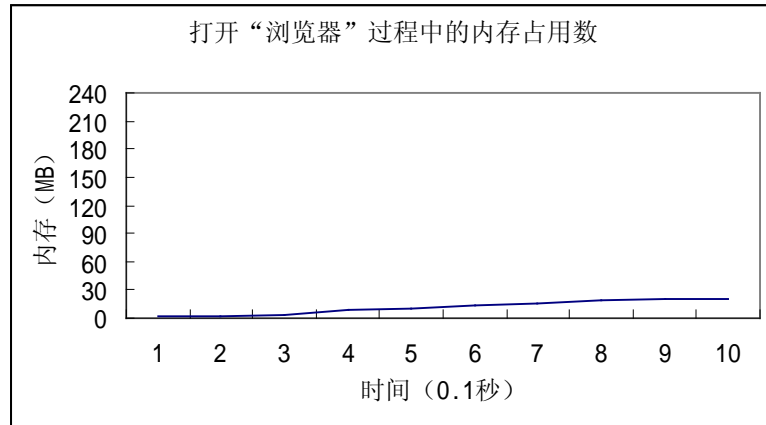
Figure 21 - Memory usage when openning "Firefox"

Test Item 24: Memory usage when openning Email client

Procedure: Refer to Test Item 17.

Result:

打开"电子邮件"过程中的内存占用数
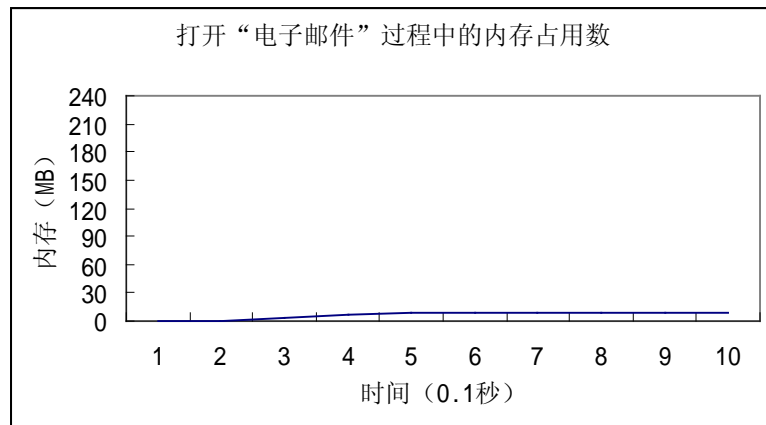
Figure 22 - Memory usage when openning Email client

Test Item 25: Memory usage   when openning "Text Editor"

Procedure: Refer to Test Item 17.

Result:

打开"文本编辑器"过程中的内存占用数
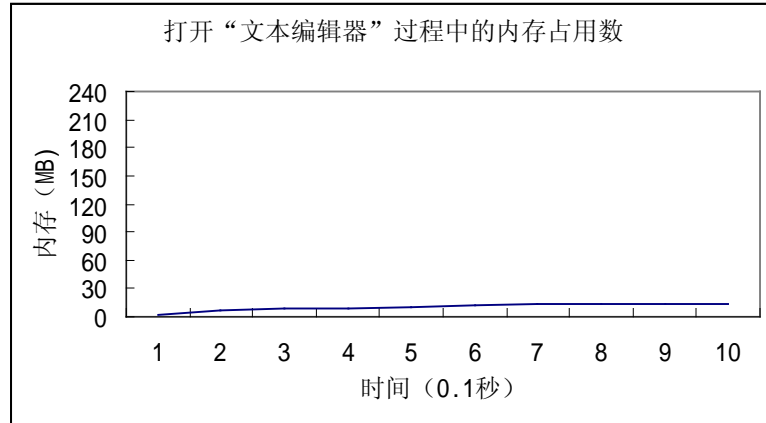
Figure 23 - Memory usage   when openning "Text Editor"

Test Item 26: Memory usage when openning "GIMP"

Procedure: Refer to Test Item 17.

Result:

打开"图像编辑器"过程中的内存占用数
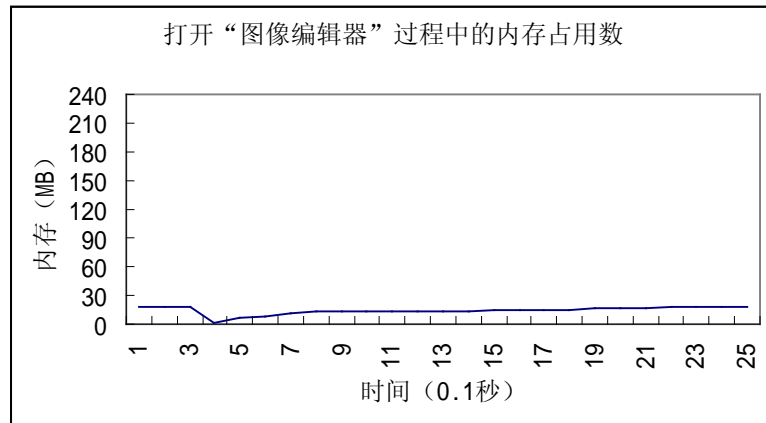
Figure 24 - Memory usage when openning "GIMP"

Test Item 27: Memory usage when openning "Image Viewer"

Procedure: Refer to Test Item 17.

Result:

打开"图像查看器"过程中的内存占用数
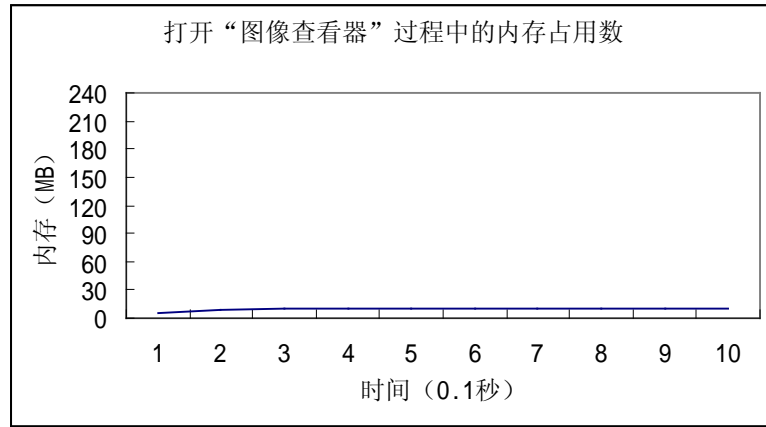
Figure 25 - Memory usage when openning "Image Viewer"

Test Item 28: Memory usage when openning "Synaptic Package Manager"

Procedure: Refer to Test Item 17.

Result:

打开"软件包管理器"过程中的内存占用数
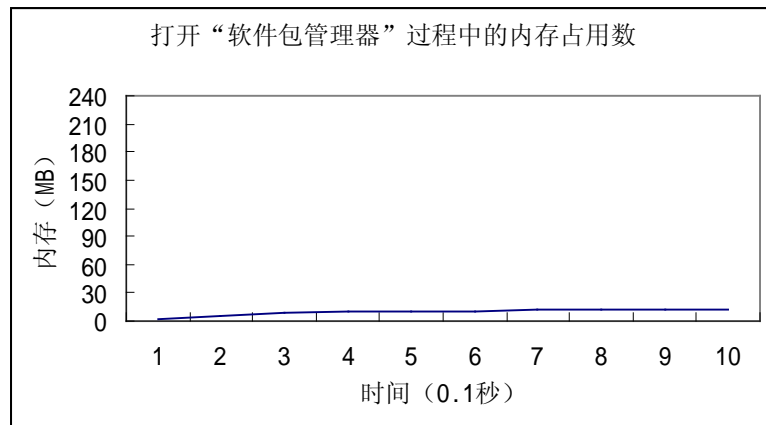
Figure 26 - Memory usage when openning "Synaptic Package Manager"

Test Item 29: Memory usage when openning "System Monitor"

Procedure: Refer to Test Item 17.

Result:

打开"系统监视器"过程中的内存占用数
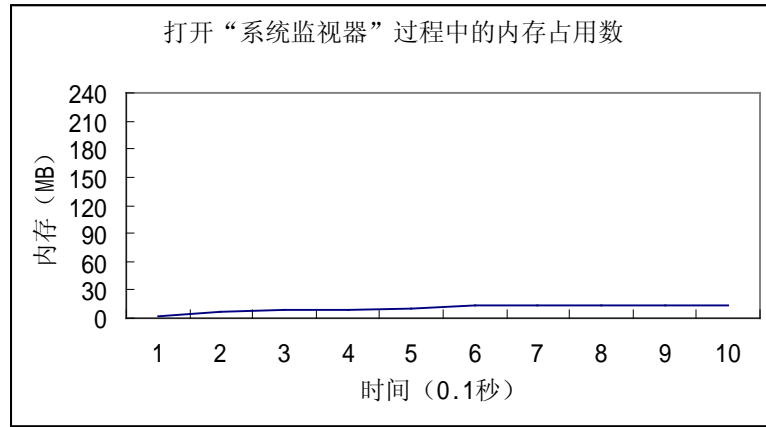
Figure 27 - Memory usage when openning "System Monitor"

Test Item 30: Memory usage when openning "Terminal"

Procedure: Refer to Test Item 17.

Result:

打开"字符终端"过程中的内存占用数
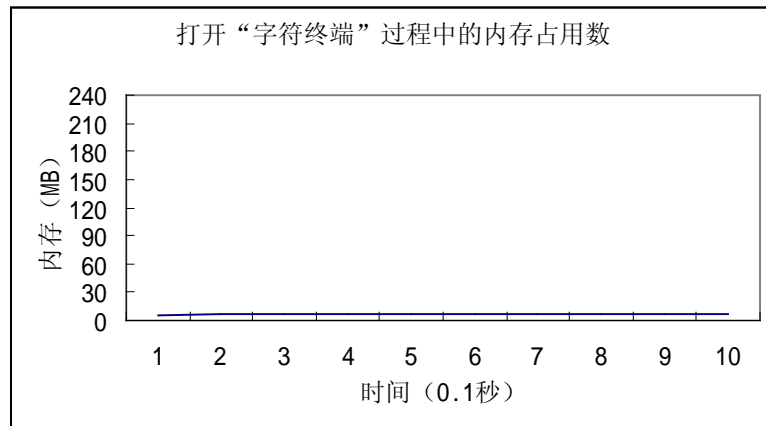
Figure 28 - Memory usage when openning "Terminal"

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Test Item 31: System memory usage

Procedure: Start the system and wait till all default services are loaded, run "Top" tocheck the system memory usage.

Result:

Table 2 System memory usage			
Procedure	**Result (MBytes)**		
	Memory usage before startup	**Memory usage after startup**	**System memory usage**
System memory	0	231.2	231.2

Appendix 3 Performance - Networking

Test Item 1: Time used to open sohu.com homepage.

Procedure: Start Terminal, run command to open sohu.com homepage in Firefox, record the time cosumed.
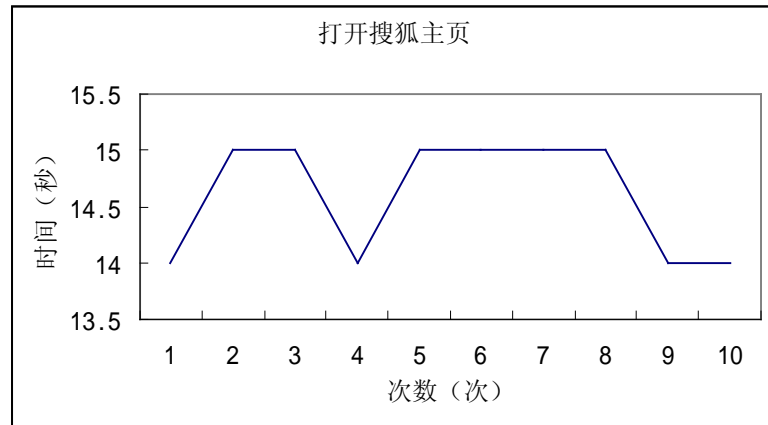
Result:

Figure 1 - Time used to open sohu.com homepage

Test Item 2: Time used to download a 500MB file from FTP server
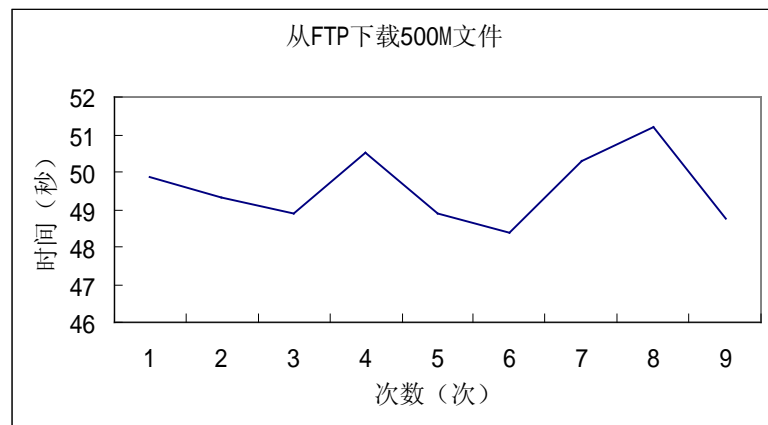
Procedure:

Result:

Figure 2 - Time used to download a 500MB file from FTP server

Test Item 3: Time used to download 2000 files of 250KB fromFTP

Procedure:

Result:

从**FTP**下载**2000**个**250K**文件
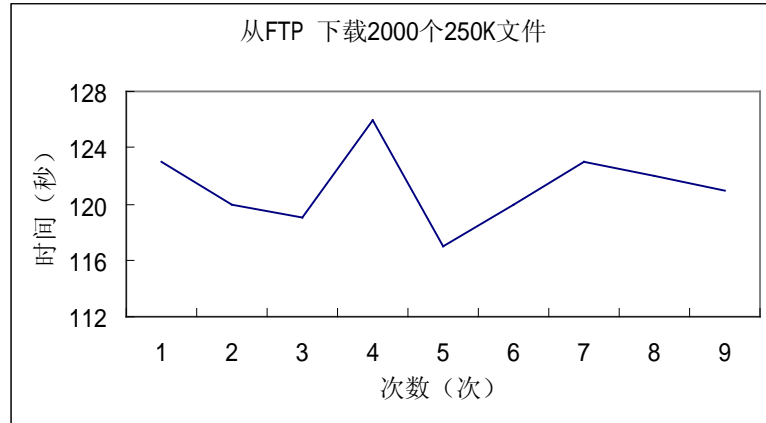
Figure 3 - Time used to download 2000 files of 250KB from FTP

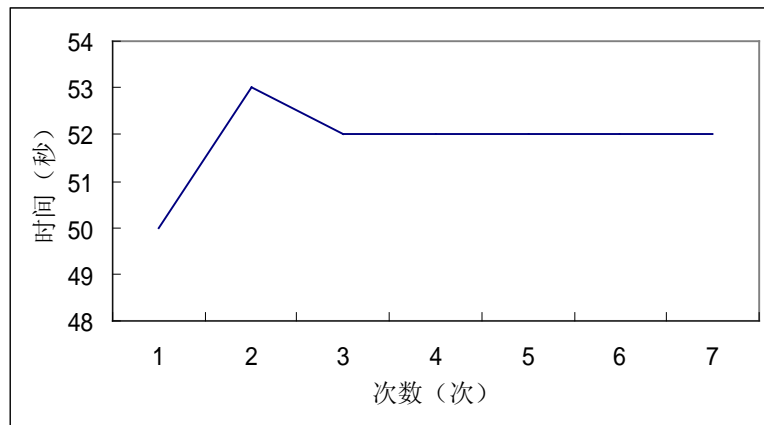**Test Item 4:** Time used to upload a 500MB file to FTP

Procedure:

Result:

Figure 4 - Time used to upload a 500MB file to FTP

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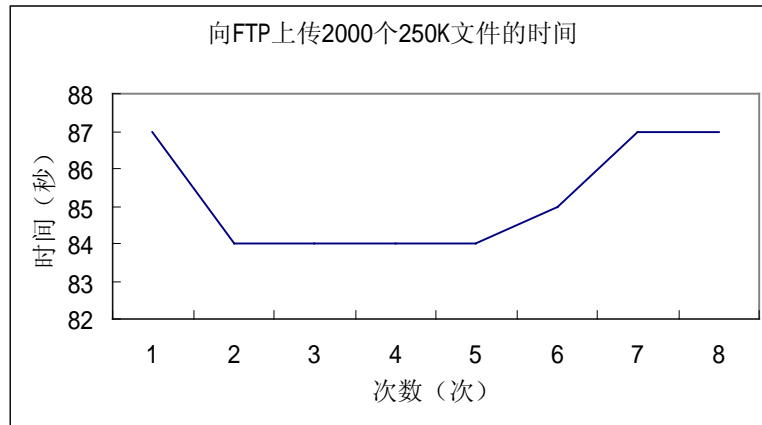**Test Item 5:** Time used to upload 2000 files of 250KB to FTP

Result:

Figure 5 - Time used to upload 2000 files of 250KB to FTP