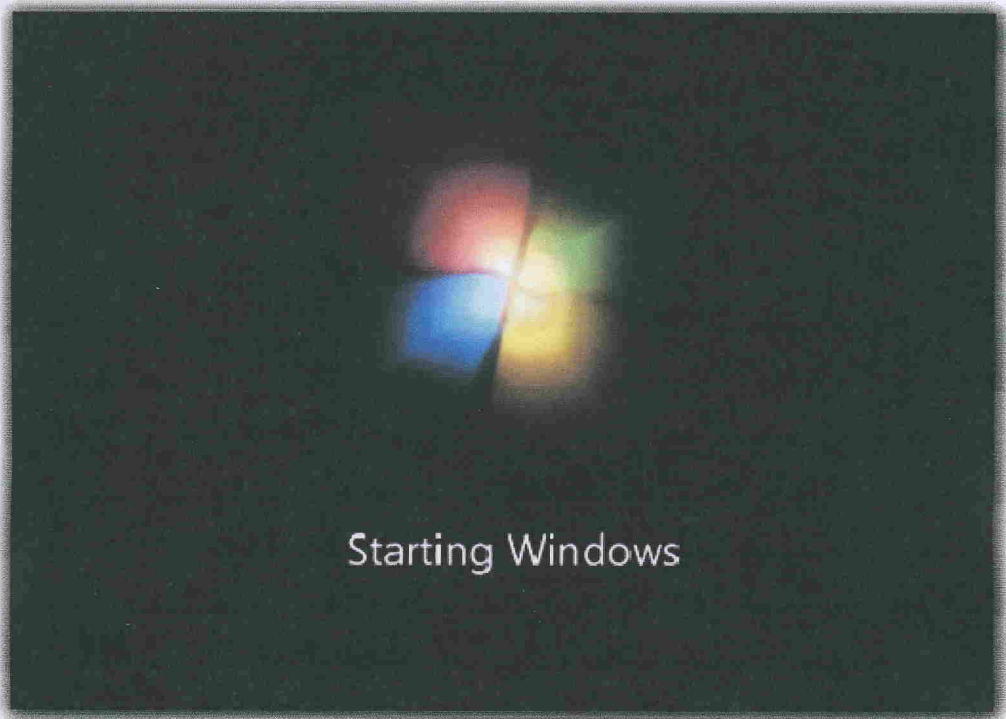


# **OSYS1040 Final Project 2009**

**Hal O'Connell**

**November 24, 2009**



**From: Ian Paton**

**Student #W0023751**

41/45

THEORY: 18/20

PRACTICAL: 23/25

Marking Sheet

Final Project

Learner's Name:

IAN PATON

Final Theory Mark

Submission Bonus

10

Final Practical Mark

Final Total Mark

CETN	A	B	C	D
<b>Task 1</b>	<b>Exceptional</b>	<b>Admirable</b>	<b>Acceptable</b>	<b>Amateur</b>
Organization	Extremely well organized; logical format that was easy to follow; flowed smoothly from one idea to another and cleverly conveyed; the organization enhanced the effectiveness of the project (3) <b>3</b>	Presented in a thoughtful manner; there were signs of organization and most transitions were easy to follow, but at times ideas were unclear (2)	Somewhat organized; ideas were not presented coherently and transitions were not always smooth, which at times distracted the reader (1)	Choppy and confusing; format was difficult to follow; transitions of ideas were abrupt and seriously distracted the reader (0)
Content Accuracy	Completely accurate; all facts were precise and explicit (3) <b>3</b>	Mostly accurate; a few inconsistencies or errors in information (2)	Somewhat accurate; more than a few inconsistencies or errors in information (1)	Completely inaccurate; the facts in this project were misleading to the reader (0)
Research	Went above and beyond to research information; brought in personal ideas and information to enhance project; and utilized more than eight types of resources to make project effective (3) <b>3</b>	Did a very good job of researching; utilized materials provided to their full potential; solicited more than six types of research to enhance project (2)	Used the material provided in an acceptable manner, but did not consult many additional resources (1)	Did not utilize resources effectively; did little or no fact gathering on the topic (0)
Creativity	Was extremely clever and presented with originality; a unique approach that truly enhanced the project (3)	Was clever at times; thoughtfully and uniquely presented (2) <b>2</b>	Added a few original touches to enhance the project but did not incorporate it throughout (1)	Little creative energy used during this project; was bland, predictable, and lacked "zip" (0)
Organization/ Mechanics	Flawless grammar and punctuation; layout is easy to navigate. (3) <b>3</b>	Very few grammar and punctuation errors; layout is easy to navigate. (2)	Some grammar and punctuation errors; layout is sometimes confusing to navigate. (1)	Several grammar and punctuation errors; layout is very difficult to navigate. (0)

Marking Rubric - Task 4

	Exceptional	Acceptable	Amateur
Migration Data saved	Completely accurate; all data backed up for migration. Backed up data demonstrated by listing of the archived data. Screen Captures of the use of the appropriate Wizard to create the archive are included. (5)	Missing data (1-4). Data archive not completely demonstrated.	No data Migrated (0)

Task #4 Mark

5 /5

Task #1 Mark

14 /15

Marking Rubric - Task 2

One point deducted for each error in the answer file submitted to a maximum of 10.

Task #2 Mark

10

9/10

Marking rubric - Task 3

	Exceptional	Acceptable	Amateur
Content Accuracy	Completely accurate; all facts were precise and explicit (3) <b>2</b>	Somewhat accurate; more than a few inconsistencies or errors in information (1)	Completely inaccurate; the facts in this project were misleading to the reader (0)
Research	Went above and beyond to research information; brought in personal ideas and information to enhance project; and utilized more than eight types of resources to make project effective (2) <b>2</b>	Used the material provided in an acceptable manner, but did not consult many additional resources (1)	Did not utilize resources effectively; did little or no fact gathering on the topic (0)

Task #3 Mark

4 /5

Marking Rubric - Task 5

	Exceptional	Acceptable	Amateur
Initial Windows 7 VM	Completely accurate; all updates completed. Belarc installed and run on the Windows 7 virtual machine. Belarc Report is clean. (5)	Somewhat accurate; inconsistencies or errors in configuration (1-4)	VM not created (0)

Task #5 Mark

4 /5

Marking Rubric - Task 6

	Exceptional	Acceptable	Amateur
Final Windows 7 VM	Completely accurate; all data migrated, applications specified installed. ICACLS report of the user's "My Documents" directory under Windows 7 is provided. (5)	Somewhat accurate; inconsistencies or errors in configuration (1-4)	VM not created or data missing from migration (0)

Task #6 Mark

5 /5

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## **Task #2- Task #6 (unattended installation of Windows XP and upgrade to Windows 7)**

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# Memo

**To:** Hal O'Connell  
**From:** Ian Paton  
**Pages:** 1 of 2  
**Date:** 11/22/2009  
**Re:** Cost Analysis ~ Upgrade Dell Optiplex GX280

---

Hal,

The purpose of this project was to evaluate the potential upgrade of the Dell Optiplex GX280 that we have on hand. The main reason for this was that we knew most upgrades from our older systems would be required in order to upgrade from Windows XP to Windows 7.

The Dell Optiplex GX280 has the following specifications:

Dell Optiplex GX280 Small Minitower  
Pentium 4, 2.8 GHz  
256MB memory  
40 GB SATA hard drive  
48X CD-ROM Drive  
Floppy drive  
15" flat panel monitor and speakers  
Windows XP Professional SP1 Operating System

The minimum requirements to upgrade from Windows XP to Windows 7 are the following:

Processor: 1GHz or faster  
Memory: 1 GB RAM  
Available Disk Space: 18 GB  
Graphics: DirectX 9 graphics processor with Windows Display Driver Model (WDDM) or higher

In order to make this system to be functional with Windows 7 we will need to upgrade RAM, video card and the power supply. The following are the specific items that are being proposed to upgrade:

- Upgrade from 256MB memory (RAM) to 2 GB memory (RAM). Purchased directly from Dell for **\$79.98 (information attached)**
- Upgrade from our current video card to Galaxy GeForce 9500 GT, purchase from [www.newegg.com](http://www.newegg.com) for **\$46.99 (information attached)**
- Upgrade our current power supply to a Corsair 450 Watt VX Series Power Supply purchased directly from Dell for **\$69.99 (information attached)**

**Grand total cost for this upgrade is: \$196.96**

*Good  
cost*



Shop

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Laptops  
& Netbooks

Desktops

Servers, Storage  
& Networking

Printers &amp; Ink

Electronics  
& Accessories

Software

Services

Solutions

View All

Windows 7 Windows 7: Ready for Business

PRINT SHARE

## Windows 7: Ready for Business

### Windows 7: Frequently Asked Questions

#### New FAQ Page

Print Email

#### FAQ

1. Are drivers available for the Windows® 7 operating system and, if so, how can I access them?
2. What are the hardware requirements for Windows 7?
3. What is involved in legacy testing for Windows 7?
4. Which version of Internet Explorer comes with Windows 7?
5. Are the security features in Windows 7 robust enough that organisations can dispense with desktop virus-protection software?
6. Will Microsoft® Office 2007 work with Windows 7?
7. When will Windows 7 Vista Service Pack 1 (SP1) be released?

#### 1. Are drivers available for the Windows 7 operating system and, if so, how can I access them?

Dell will begin posting Windows 7 drivers to the Dell Support Website in October 2009 when we launch Windows 7. In rare cases, there may be no Windows 7 drivers available for some hardware and software.

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#### 2. What are the hardware requirements for Windows 7?

The following table shows the minimum hardware requirements for Windows 7 as provided by Microsoft:

	Minimum 32-bit Operating System	Minimum 64-bit Operating System
<b>Processor</b>	1 GHz or faster, 32-bit (x 86)	1 GHz or faster, 64-bit (x 64)
<b>Memory</b>	1 GB RAM	2 GB RAM
<b>Available Disk Space</b>	16 GB	20 GB
<b>Graphics</b>	DirectX® 9 graphics processor with Windows Display Driver Model (WDDM) or higher driver	DirectX® 9 graphics processor with WDDM or higher driver

These minimum requirements are for basic computing tasks such as word processing and Web browsing. Additional memory and graphics may be required for more powerful computing tasks.

Additionally, the following are the minimum hardware requirements for running Windows 7 in Windows XP Mode:

- **Processor:** Intel® Virtualization Technology (VT) or AMD-V™
- **Memory:** 2GB (32-bit), 3GB (64-bit)
- **Available Disk Space:** 15GB

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#### 3. What is involved in legacy testing for Windows 7?

When testing legacy platforms, we execute the same tests on each platform and perform specific testing if the configuration contains a device such as Bluetooth, wireless or modem.

Legacy testing includes determining Windows 7 basic functionality and makes sure that:

- Hardware devices are operational
- No data is lost
- Basic Windows 7 functions are working properly

# Windows 7 system requirements

## If you want to run Windows 7 on your PC, here's what it takes:

- 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor
- 1 gigabyte (GB) RAM (32-bit) or 2 GB RAM (64-bit)
- 16 GB available hard disk space (32-bit) or 20 GB (64-bit)
- DirectX 9 graphics device with WDDM 1.0 or higher driver

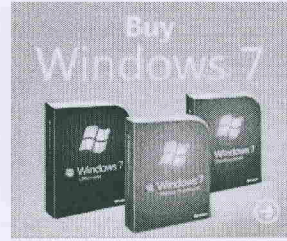
## Additional requirements to use certain features:

- Internet access (fees may apply)
- Depending on resolution, video playback may require additional memory and advanced graphics hardware
- Some games and programs might require a graphics card compatible with DirectX 10 or higher for optimal performance
- For some Windows Media Center functionality a TV tuner and additional hardware may be required
- Windows Touch and Tablet PCs require specific hardware
- HomeGroup requires a network and PCs running Windows 7
- DVD/CD authoring requires a compatible optical drive
- BitLocker requires Trusted Platform Module (TPM) 1.2
- BitLocker To Go requires a USB flash drive
- Windows XP Mode requires an additional 1 GB of RAM, an additional 15 GB of available hard disk space, and a processor capable of hardware virtualization with Intel VT or AMD-V turned on
- Music and sound require audio output

Product functionality and graphics may vary based on your system configuration. Some features may require advanced or additional hardware.

## More to explore

- Upgrade to Windows 7
- See if your PC can run Windows 7
- Check device and software compatibility
- Check out top features
- Take a tour
- Watch videos



### Get to Know Windows 7

- Key benefits
- Explore the features
- System requirements
- Compare editions

### Find Your Fit

- Enterprise
- Midsize business
- Small business
- IT pro

### Resources

- Windows Laptop Scout
- The Windows Blog
- Exploring Windows newsletter
- Windows worldwide websites

### Windows Family

- Windows Vista
- Windows XP
- Windows Live
- Internet Explorer

### Ads & Videos

- Windows 7 videos
- Laptop Hunters
- The Rookies
- The Possibilities

;SetupMgrTag

[Data]

AutoPartition=1  
MSDosInitiated="0"  
UnattendedInstall="Yes"  
AutomaticUpdates=yes

[Unattended]

Repartition=Yes  
UnattendMode=FullUnattended  
UnattendSwitch = Yes  
OemSkipEula=Yes  
OemPreinstall=No  
TargetPath=\WINDOWS  
WaitForReboot="No"  
AutoActivate=Yes

[GuiUnattended]

AdminPassword=f0d412bd764ffe81aad3b435b51404ee209c6174da490caeb422f3fa5a7ae634  
EncryptedAdminPassword=Yes  
AutoLogon=Yes  
AutoLogonCount=1  
OEMSkipRegional=1  
TimeZone=50  
OemSkipwelcome=1

[UserData]

ProductKey=PTBHJ-4J3KW-MGBXK-P23BF-VK8JT  
ProductID=PTBHJ-4J3KW-MGBXK-P23BF-VK8JT  
FullName="Ian Paton"  
OrgName="NSCC"  
ComputerName=Paton

[Display]

AutoConfirm=1  
BitsPerPel=32  
Xresolution=1024  
YResolution=768  
Vrefresh=85

[TapiLocation]

CountryCode=107

[RegionalSettings]

LanguageGroup=1  
SystemLocale=00001009  
UserLocale=00001009  
InputLocale=1009:00000409  
Keyboard=US

[Identification]

JoinWorkgroup=OSYSFP

[Networking]

InstallDefaultComponents=Yes

[Components]

Msnexplr=off  
freecell=off  
hearts=off  
minesweeper=off  
pinball=off  
solitaire=off  
spider=off  
zonegames=off  
Iis\_asp = Off  
Iis\_common = On  
Iis\_ftp = On  
Iis\_inetmgr = On  
Iis\_internetdataconnector = off  
Iis\_nntp = On

# BELARC Advisor

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## System Security Status

CIS Benchmark Score  
? Available only for Windows 2000, XP Pro, and 2003

Virus Protection  
? Unknown

[Microsoft Security Updates](#)  
✓ Up-to-date

## Computer Profile Summary

Computer Name: Paton (in WORKGROUP) **OSYSFP**  
Profile Date: November 22, 2009 4:04:49 PM  
Advisor Version: 8.1b  
Windows Logon: ian

**Plan for your next computer refresh...  
click for Belarc's System Management products**

**In page Links:**

[Network Map new](#)

[Software Licenses](#)

[Software Versions & Usage new](#)

[Missing Hotfixes](#)

[Installed Hotfixes](#)

### Operating System

Windows 7 Business (build 7600)  
Install Language: English (United States)  
System Locale: English (Canada)

### System Model

Microsoft Corporation Virtual Machine  
VS2005R2  
System Serial Number: 4365-3724-8757-3835-2964-0121-35  
Asset Tag: 4365-3724-8757-3835-2964-0121-35  
Chassis Serial Number: 4365-3724-8757-3835-2964-0121-35  
Enclosure Type: Desktop

### Processor <sup>a</sup>

4 megahertz Intel Core 2 Duo  
64 kilobyte primary memory cache  
2048 kilobyte secondary memory cache  
Multi-core (2 total)  
Not hyper-threaded

### Main Circuit Board <sup>b</sup>

Board: Microsoft Corporation Virtual Machine 5.0  
Serial Number: 4365-3724-8757-3835-2964-0121-35  
Bus Clock: 100 megahertz  
BIOS: American Megatrends Inc. 080002 02/22/2006

### Drives

68.71 Gigabytes Usable Hard Drive Capacity  
54.20 Gigabytes Hard Drive Free Space  
MS C/DVD-ROM ATA Device [CD-ROM drive]  
3.5" format removeable media [Floppy drive]  
Virtual HD [Hard drive] (68.72 GB) -- drive 0, rev 1. 1, SMART Status: Healthy

### Memory Modules <sup>c,d</sup>

512 Megabytes Usable Installed Memory

### Local Drive Volumes

c: (NTFS on drive 0) 68.71 GB 54.20 GB free

### Network Drives

None detected

### Users (mouse over user name for details)

local user accounts	last logon
FacultyUser	never
ian	22/11/2009 3:36:19 (admin)


### Printers

Microsoft Shared Fax Driver	on SHRFAQ:
Microsoft XPS Document Writer	on XPSPort:

**OSYS1040 Final Project 2009  
Group C  
Ian Paton  
Student #W0023751  
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PM  
 StudentUser never  
**local system accounts**  
 ✕ Administrator 14/07/2009 1:53:58 (admin)  
 AM  
 ✕ Guest never

✕ Marks a disabled account;  Marks a locked account

**Controllers**

Standard floppy disk controller  
 ATA Channel 0 [Controller]  
 ATA Channel 1 [Controller]  
 Intel(R) 82371AB/EB PCI Bus Master IDE Controller

**Display**

VM Additions S3 Trio32/64 [Display adapter]

**Bus Adapters**

None detected

**Multimedia**

None detected

**Virus Protection** [[Back to Top](#)]

No details available

**new Group Policies**

None discovered

**Communications**

Intel 21140-Based PCI Fast Ethernet Adapter (Emulated)  
 primary Auto IP Address: 10.13.120.1 / 24  
 Gateway: 10.13.120.254  
 Dhcp Server: 10.13.1.2  
 Physical Address: 00:03:FF:33:8F:FF  
 Microsoft ISATAP Adapter

**Other Devices**

Standard PS/2 Keyboard  
 Microsoft PS/2 Mouse  
 Generic volume shadow copy

Networking Dns Servers: 10.13.1.1  
 10.13.1.2

**[See your entire network map...](#)**  
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**new Network Map** (mouse over IP address for physical address) [[Back to Top](#)]

IP	Device Type	Device Details	Device Roles
10.13.120.1	Windows 7 Workstation	Paton (in WORKGROUP), MS Virtual	Samba Server
10.13.120.13		MS Virtual	
10.13.120.15	System	Ind30903 (in CAMPUS), ind30903.campus.nsc.ca, Dell	Browse Master
10.13.120.26	System	Ind30937 (in CAMPUS), ind30937.campus.nsc.ca, Dell	
10.13.120.29	System	Ind30938 (in CAMPUS), ind30938.campus.nsc.ca, Dell	
10.13.120.31	System	Ind30927 (in CAMPUS), ind30927.campus.nsc.ca, Dell	
10.13.120.34	System	Ind30939 (in CAMPUS), ind30939.campus.nsc.ca, Dell	
10.13.120.254	Router	Cisco	Gateway

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**Missing Microsoft Security Hotfixes** [[Back to Top](#)]

**OSYS1040 Final Project 2009**  
**Group C**  
**Ian Paton**  
**Student #W0023751**  
**Page 40**

All required security hotfixes (using the 11/10/2009 Microsoft Security Bulletin Summary) have been installed.

**Manage all your software licenses...**  
**click for Belarc's System Management products**

**Software Licenses** [[Back to Top](#)]

Belarc - Advisor	9a6fb90b
Microsoft - Internet Explorer	76487-028-8353423-22952 (Key: PTBHI-4J3KW-MGBXK-P23BF-VK8JT)
Microsoft - PowerShell	89383-100-0001260-04309
Microsoft - Windows 7 Business	00371-840-9962646-85151 (Key: RBPVX-JGVVY-FJ63K-J4M2T-4P874)

**Find unused software and reduce licensing costs...**  
**click for Belarc's System Management products**

**new Software Versions & Usage** (mouse over **i** for details, click **i** for location) [[Back to Top](#)]


<b>i</b> Belarc, Inc. - Advisor Version 8.1b	<b>i</b> Microsoft Corporation - Windows® Search Version 7.00.7600.16385
<b>i</b> Create and edit drawings, flow charts, and logos by using Draw.	<b>i</b> Microsoft® Windows Script Host Version 5.8.7600.16385
<b>i</b> Create and edit presentations for slideshows, meeting and Web pages by using Impress.	<b>i</b> Microsoft® .NET Framework Version 2.0.50727.4927
<b>i</b> Create and edit scientific formulas and equations by using Math.	<b>i</b> Microsoft® .NET Framework Version 3.0.6920.4902
<b>i</b> Create and edit text and graphics in letters, reports, documents and Web pages by using Writer.	<b>i</b> Microsoft® Windows® Operating System Version 12.0.7600.16385
<b>i</b> Manage databases, create queries and reports to track and manage your information by using Base.	<b>i</b> OpenOffice.org 3.1 Version 3.01.9420
<b>i</b> Microsoft Corporation - Internet Explorer Version 8.00.7600.16385	<b>i</b> Perform calculation, analyze information and manage lists in spreadsheets by using Calc.
<b>i</b> Microsoft Corporation - Virtual Machine Additions Version 013.820	<b>i</b> Sun Microsystems, Inc. - Java(TM) Platform SE 6 U16 Version 6.0.160.1
<b>i</b> Microsoft Corporation - Windows Installer - Unicode Version 5.0.7600.16385	<b>i</b> sweb.exe






- i** Mouse over to see details, click to see where software is installed.
  - !** Marks software last used within the past 7 days.
  - ||** Marks software last used within the past 90 days, but over 7 days ago.
  - |||** Marks software last used within the past year, but over 90 days ago.
  - ||||** Marks software last used over 1 year ago.
- Unmarked software lacks the data to determine last use.

**Audit your security posture...**  
**click for Belarc's System Management products**





**Installed Microsoft Hotfixes** [[Back to Top](#)]

**Windows 7**

-  KB973525 ([details...](#))
- KB974332 ([details...](#))
- KB974431 ([details...](#))

-  KB974455 ([details...](#))
-  KB974571 ([details...](#))
-  KB975364 ([details...](#))
-  KB975467 ([details...](#))
-  KB976749 ([details...](#))

**[Click here](#) to see all available Microsoft security hotfixes for this computer.**

-  Marks a security hotfix (using the 11/10/2009 Microsoft Security Bulletin Summary)
-  Marks a security hotFix that fails verification (a security vulnerability)
-  Marks a hotfix that verifies correctly
-  Marks a hotfix that fails verification (note that failing hotfixes need to be reinstalled)
- Unmarked hotfixes lack the data to allow verification

- a. Processor clock speed is measured at computer start-up, and on laptops may be impacted by power option settings.
- b. Data may be transferred on the bus at one, two, or four times the Bus Clock rate.
- c. Memory slot contents may not add up to Installed Memory if some memory is not recognized by Windows.
- d. Memory slot contents is reported by the motherboard BIOS. Contact system vendor if slot contents are wrong.
- e. This is the manufacturer's factory installed product key rather than yours. You can change it to your product key here <http://go.microsoft.com/fwlink/?LinkId=45668> for Windows, or here <http://support.microsoft.com/?kbid=895456> for Office.

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