

# OPERATING SYSTEMS

```
C:\WINDOWS\system32\CMD.exe
Microsoft Windows XP [Versión 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrador>DIR
El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: 241B-42B7

Directorio de C:\Documents and Settings\Administrador

30/05/2011  01:24    <DIR>          .
30/05/2011  01:24    <DIR>          ..
25/05/2011  10:51    <DIR>          .VirtualBox
19/04/2007  11:28             1.440.056 BricoPackSplash.bmp
19/05/2011  16:11    <DIR>          Contacts
30/05/2011  10:46    <DIR>          Escritorio
29/05/2011  01:49             33 log.txt
29/04/2011  01:42    <DIR>          Menú Inicio
30/05/2011  13:01    <DIR>          Temp
21/05/2011  11:47    <DIR>          VirtualBox VMs
                2 archivos             1.440.089 bytes
                8 dirs      3.421.655.040 bytes libres

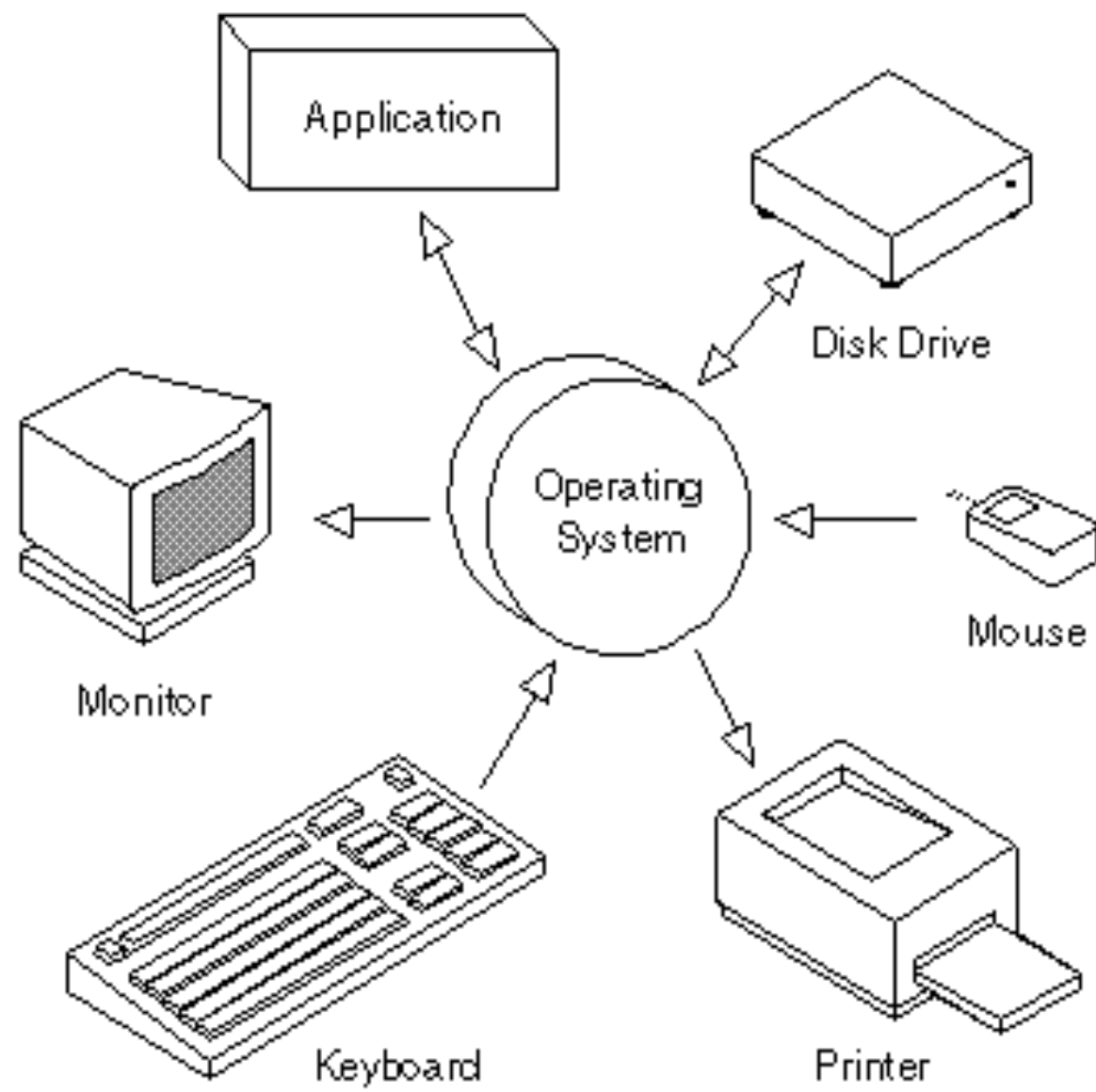
C:\Documents and Settings\Administrador>
```

# OPERATING SYSTEMS

**SOFTWARE THAT MANAGES A COMPUTER'S RESOURCES AND ALLOCATES RESOURCES AMONG OTHER PROGRAMS**

**RESOURCES INCLUDE THE CENTRAL PROCESSING UNIT (CPU), COMPUTER MEMORY, FILE STORAGE, INPUT/OUTPUT (I/O) DEVICES, AND NETWORK CONNECTIONS**

**RUNS INDEFINITELY AND TERMINATES ONLY WHEN THE COMPUTER IS TURNED OFF**



# OPERATING SYSTEMS

DOS (GENERIC TERM)

MICROSOFT OS

MAC OS

LINUX

IOS

ANDROID SYMBIAN OS

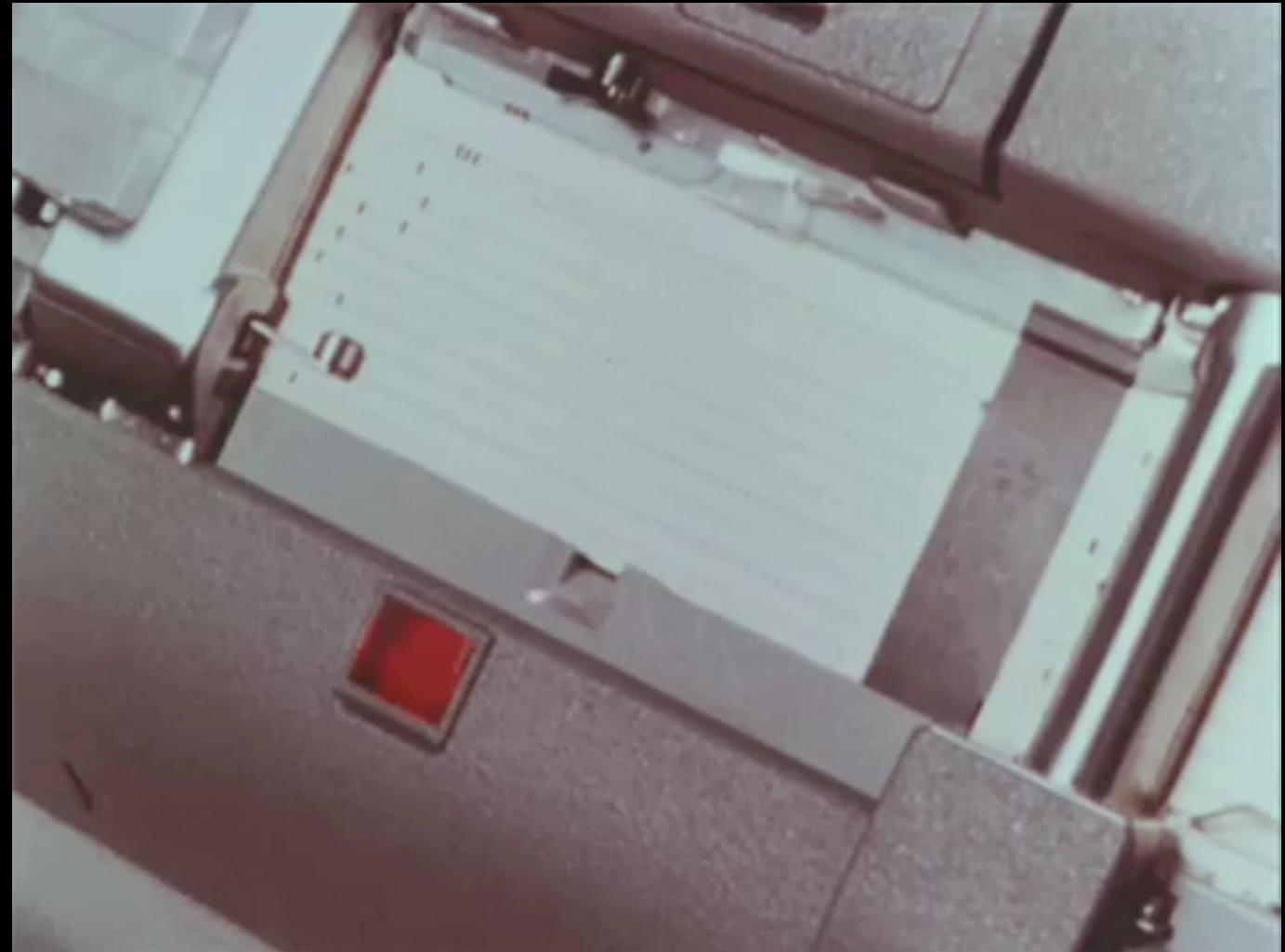
# OPERATING SYSTEMS

**FIRST DIGITAL COMPUTERS HAD NO  
OPERATING SYSTEMS**

**RAN ONE PROGRAM AT A TIME, WHICH  
HAD COMMAND OF ALL SYSTEM  
RESOURCES**

**A HUMAN OPERATOR WOULD PROVIDE  
ANY SPECIAL RESOURCES NEEDED**

**FIRST OPERATING SYSTEMS WERE  
DEVELOPED IN THE MID-1950S**



# COMMAND LINE INTERFACE (CLI) VS. GRAPHICAL USER INTERFACE (GUI)





# OPERATING SYSTEMS

## UNIX

**OPERATING SYSTEM BY AT&T BELL LABS**

**ORIGINALLY DEVELOPED IN 1969**

**COMMAND LINE INTERFACE**

**PORTABLE, MULTI-TASKING, MULTI-USER**

**FREE DISTRIBUTION, OPEN SYSTEM**

**BASIS OF LINUX AND MACOS**

# OPERATING SYSTEMS

## UNIX COMMANDS

pwd

cd <directory name>

cd ..

cd

cp <filename> <copied filename>

cp -i <filename> <copied filename>

ls

ls -l

ls -a

mkdir <directory name>

pico <filename> **OR** nano <filename>

rm <filename>

rmdir <directory name>

man

chmod

**CHECK OUT MORE COMMANDS ON CLASS WEBSITE**



# OPERATING SYSTEMS

## UNIX COMMANDS

**chmod** -SETS PERMISSIONS

r (read)	= 4	U= USER (ORIGINATOR OF FILE)
w (write)	= 2	G= GROUP (USUALLY DEFINED IN UNIX)
x (execute/explore)	= 1	W= WORLD (EVERYONE ELSE)
- (none)	= 0	

### Permission

### Command

U    G    W

rwX rwX rwX

chmod 777 filename

rwX rwX r-X

chmod 775 filename

rwX r-X r-X

chmod 755 filename    STANDARD DIRECTORY

rw- rw- r--

chmod 664 filename

rw- r-- r--

chmod 644 filename    STANDARD FILE

# **HOMEWORK**

**READ CHAPTERS 1 AND 2 IN THE BOOK.**

**FEEL FREE TO START EXPERIMENTING WITH HTML.**

**STANDARD DIRECTORY PERMISSION: 755**

**UNIX ASSIGNMENT #1 - POSTED IN NYU CLASSES AND WEBSITE**