

# Graphics Bitmaps

Drawing alphabetic characters  
and multicolor patterns

# Finding the ROM fonts

- Standard BIOS service locates ROM fonts
- Designed to execute in 8086 real-mode
- Normal service-call protocol is followed:
  - Parameters are placed in CPU registers
  - Software interrupt instruction is executed
  - ROM-BIOS code performs desired service
  - Parameters may be returned in registers

# Example

```
# AT&T assembly language syntax
mov    $0x11, %ah # char. gen. services
mov    $0x30, %al # get font information
mov    $2, %bh    # 8x14 font address
int    $0x10     # request BIOS service
# the font address is returned in ES:BP
# (and count of scanlines should be in CX)
```