USB HID usage table

This usage table lets usbhidctl decode the HID data correctly for the APC RS/XS1000's.

This work was obtained from riccardo@torrini.org.

Sample output is available both with and without the table.

Note that the default /usr/share/misc/usb_hid_usages already contains entries for these a Power Device (132 or 0x84) and a Battery System (133 or 0x85). It is interesting that usbhidctl shows the APC as using 0xff84 and 0xff84 for their values. The HID Power Devices specification indicates 0x84 and 0x85. There is at least one macro in /usr/include/dev/usb/usbhid.h which removes the high order bits. Perhaps we need to do that when using the values. Perhaps this macro:

        #define HID_USAGE2(p,u) (((p) << 16) | u)

The file is available without HTML formatting here.

```
# $NetBSD: usb_hid_usages,v 1.3 1999/07/02 15:46:53 simonb Exp $
# $FreeBSD: src/share/misc/usb_hid_usages,v 1.1.2.1 2000/07/02 13:13:55 n_hibma Exp $
#
# USB HID usage table
# Syntax:
#  - lines that do not start with a white space give the number and name of
#    a usage page.
#  - lines that start with a white space give the number and name of
#    a usage with the last given page.
#    If the number is * then the line matches all usages and the name
#    is a printf formatting string that will be given the usage number.
#
1       Generic Desktop
        0x00    Undefined
        0x01    Pointer
        0x02    Mouse
        0x03    Reserved
        0x04    Joystick
        0x05    Game Pad
        0x06    Keyboard
        0x07    Keypad
        0x08    Multi-axis Controller
        0x30    X
        0x31    Y
        0x32    Z
        0x33    Rx
        0x34    Ry
        0x35    Rz
        0x36    Slider
        0x37    Dial
        0x38    Wheel
        0x39    Hat Switch
        0x3A    Counted Buffer
        0x3B    Byte Count
        0x3C    Motion Wakeup
        0x40    Vx
        0x41    Vy
        0x42    Vz
        0x43    Vbrx
        0x44    Vbry
        0x45    Vbrx
        0x46    Vno
        0x80    System Control
```

```
         0x81      System Power Down
         0x82      System Sleep
         0x83      System Wake Up
         0x84      System Context Menu
         0x85      System Main Menu
         0x86      System App Menu
         0x87      System Menu Help
         0x88      System Menu Exit
         0x89      System Menu Select
         0x8A      System Menu Right
         0x8B      System Menu Left
         0x8C      System Menu Up
         0x8D      System Menu Down
         0x90      D-pad Up
         0x91      D-pad Down
         0x92      D-pad Right
         0x93      D-pad Left

2        Simulation Controls
         0x00      Undefined
         0x01      Flight Simulation Device
         0x02      Automobile Simulation Device
         0x03      Tank Simulation Device
         0x04      Spaceship Simulation Device
         0x05      Submarine Simulation Device
         0x06      Sailing Simulation Device
         0x07      Motorcycle Simulation Device
         0x08      Sports Simulation Device
         0x09      Airplane Simulation Device
         0x0A      Helicopter Simulation Device
         0x0B      Magic Carpet Simulation Device
         0x0C      Bicycle
         0x20      Flight Control Stick
         0x21      Flight Stick
         0x22      Cyclic Control
         0x23      Cyclic Trim
         0x24      Flight Yoke
         0x25      Track Control
         0x26      Driving Control
         0xB0      Aileron
         0xB1      Aileron Trim
         0xB2      Anti-Torque Control
         0xB3      Auto-pilot Enable
         0xB4      Chaff Release
         0xB5      Collective Control
         0xB6      Dive Brake
         0xB7      Electronic Counter Measures
         0xB8      Elevator
         0xB9      Elevator Trim
         0xBA      Rudder
         0xBB      Throttle
         0xBC      Flight Communication
         0xBD      Flare Release
         0xBE      Landing Gear
         0xBF      Toe Brake
         0xC0      Trigger
         0xC1      Weapons Arm
         0xC2      Weapons Select
         0xC3      Wing Flaps
         0xC4      Accelerator
         0xC5      Brake
         0xC6      Clutch
         0xC7      Shifter
         0xC8      Steering
         0xC9      Turret Direction
         0xCA      Barrel Elevation
```

```
        0xCB     Dive Plane
        0xCC     Ballast
        0xCD     Bicycle Crank
        0xCE     Handle Bars
        0xCF     Front Brake
        0xD0     Rear Brake

3       VR Controls
        0x00     Unidentified
        0x01     Belt
        0x02     Body Suit
        0x03     Flexor
        0x04     Glove
        0x05     Head Tracker
        0x06     Head Mounted Display
        0x07     Hand Tracker
        0x08     Oculometer
        0x09     Vest
        0x0A     Animatronic Device
        0x20     Stereo Enable
        0x21     Display Enable

4       Sports Controls
        0x00     Unidentified
        0x01     Baseball Bat
        0x02     Golf Club
        0x03     Rowing Machine
        0x04     Treadmill
        0x30     Oar
        0x31     Slope
        0x32     Rate
        0x33     Stick Speed
        0x34     Stick Face Angle
        0x35     Stick Heel/Toe
        0x36     Stick Follow Through
        0x37     Stick Tempo
        0x38     Stick Type
        0x39     Stick Height
        0x50     Putter
        0x51     1 Iron
        0x52     2 Iron
        0x53     3 Iron
        0x54     4 Iron
        0x55     5 Iron
        0x56     6 Iron
        0x57     7 Iron
        0x58     8 Iron
        0x59     9 Iron
        0x5A     10 Iron
        0x5B     11 Iron
        0x5C     Sand Wedge
        0x5D     Loft Wedge
        0x5E     Power Wedge
        0x5F     1 Wood
        0x60     3 Wood
        0x61     5 Wood
        0x62     7 Wood
        0x63     9 Wood

5       Game Controls
        0x00     Undefined
        0x01     3D Game Controller
        0x02     Pinball Device
        0x03     Gun Device
        0x20     Point of View
        0x21     Turn Right/Left
```

```
        0x22    Pitch Right/Left
        0x23    Roll Forward/Backward
        0x24    Move Right/Left
        0x25    Move Forward/Backward
        0x26    Move Up/Down
        0x27    Lean Right/Left
        0x28    Lean Forward/Backward
        0x29    Height of POV
        0x2A    Flipper
        0x2B    Secondary Flipper
        0x2C    Bump
        0x2D    New Game
        0x2E    Shoot Ball
        0x2F    Player
        0x30    Gun Bolt
        0x31    Gun Clip
        0x32    Gun Selector
        0x33    Gun Single Shot
        0x34    Gun Burst
        0x35    Gun Automatic
        0x36    Gun Safety
        0x37    Gamepad Fire/Jump
        0x39    Gamepad Trigger

7       Keyboard
        0x00    Reserved (no event indicated)
        0x01    Keyboard ErrorRollOver
        0x02    Keyboard POSTFail
        0x03    Keyboard ErrorUndefined
        0x04    Keyboard a and A
        0x05    Keyboard b and B
        0x06    Keyboard c and C
        0x07    Keyboard d and D
        0x08    Keyboard e and E
        0x09    Keyboard f and F
        0x0A    Keyboard g and G
        0x0B    Keyboard h and H
        0x0C    Keyboard i and I
        0x0D    Keyboard j and J
        0x0E    Keyboard k and K
        0x0F    Keyboard l and L
        0x10    Keyboard m and M
        0x11    Keyboard n and N
        0x12    Keyboard o and O
        0x13    Keyboard p and P
        0x14    Keyboard q and Q
        0x15    Keyboard r and R
        0x16    Keyboard s and S
        0x17    Keyboard t and T
        0x18    Keyboard u and U
        0x19    Keyboard v and V
        0x1A    Keyboard w and W
        0x1B    Keyboard x and X
        0x1C    Keyboard y and Y
        0x1D    Keyboard z and Z
        0x1E    Keyboard 1 and !
        0x1F    Keyboard 2 and @
        0x20    Keyboard 3 and #
        0x21    Keyboard 4 and $
        0x22    Keyboard 5 and %
        0x23    Keyboard 6 and ^
        0x24    Keyboard 7 and &
        0x25    Keyboard 8 and *
        0x26    Keyboard 9 and (
        0x27    Keyboard 0 and )
        0x28    Keyboard Return (ENTER)
```

```
0x29    Keyboard ESCAPE
0x2A    Keyboard DELETE (Backspace)
0x2B    Keyboard Tab
0x2C    Keyboard Spacebar
0x2D    Keyboard - and (underscore)
0x2E    Keyboard = and +
0x2F    Keyboard [ and {
0x30    Keyboard ] and }
0x31    Keyboard \ and |
0x32    Keyboard Non-US # and ~
0x33    Keyboard ; and :
0x34    Keyboard ' and "
0x35    Keyboard Grave Accent and Tilde
0x36    Keyboard, and <
0x37    Keyboard . and >
0x38    Keyboard / and ?
0x39    Keyboard Caps Lock
0x3A    Keyboard F1
0x3B    Keyboard F2
0x3C    Keyboard F3
0x3D    Keyboard F4
0x3E    Keyboard F5
0x3F    Keyboard F6
0x40    Keyboard F7
0x41    Keyboard F8
0x42    Keyboard F9
0x43    Keyboard F10
0x44    Keyboard F11
0x45    Keyboard F12
0x46    Keyboard PrintScreen
0x47    Keyboard Scroll Lock
0x48    Keyboard Pause
0x49    Keyboard Insert
0x4A    Keyboard Home
0x4B    Keyboard PageUp
0x4C    Keyboard Delete Forward
0x4D    Keyboard End
0x4E    Keyboard PageDown
0x4F    Keyboard RightArrow
0x50    Keyboard LeftArrow
0x51    Keyboard DownArrow
0x52    Keyboard UpArrow
0x53    Keypad Num Lock and Clear
0x54    Keypad /
0x55    Keypad *
0x56    Keypad -
0x57    Keypad +
0x58    Keypad ENTER
0x59    Keypad 1 and End
0x5A    Keypad 2 and Down Arrow
0x5B    Keypad 3 and PageDn
0x5C    Keypad 4 and Left Arrow
0x5D    Keypad 5
0x5E    Keypad 6 and Right Arrow
0x5F    Keypad 7 and Home
0x60    Keypad 8 and Up Arrow
0x61    Keypad 9 and PageUp
0x62    Keypad 0 and Insert
0x63    Keypad . and Delete
0x64    Keyboard Non-US \ and |
0x65    Keyboard Application
0x66    Keyboard Power
0x67    Keypad =
0x68    Keyboard F13
0x69    Keyboard F14
0x6A    Keyboard F15
```

```
0x6B      Keyboard F16
0x6C      Keyboard F17
0x6D      Keyboard F18
0x6E      Keyboard F19
0x6F      Keyboard F20
0x70      Keyboard F21
0x71      Keyboard F22
0x72      Keyboard F23
0x73      Keyboard F24
0x74      Keyboard Execute
0x75      Keyboard Help
0x76      Keyboard Menu
0x77      Keyboard Select
0x78      Keyboard Stop
0x79      Keyboard Again
0x7A      Keyboard Undo
0x7B      Keyboard Cut
0x7C      Keyboard Copy
0x7D      Keyboard Paste
0x7E      Keyboard Find
0x7F      Keyboard Mute
0x80      Keyboard Volume Up
0x81      Keyboard Volume Down
0x82      Keyboard Locking Caps Lock
0x83      Keyboard Locking Num Lock
0x84      Keyboard Locking Scroll Lock
0x85      Keypad Comma
0x86      Keypad Equal Sign
0x87      Keyboard International1
0x88      Keyboard International2
0x89      Keyboard International3
0x8A      Keyboard International4
0x8B      Keyboard International5
0x8C      Keyboard International6
0x8D      Keyboard International7
0x8E      Keyboard International8
0x8F      Keyboard International9
0x90      Keyboard LANG1
0x91      Keyboard LANG2
0x92      Keyboard LANG3
0x93      Keyboard LANG4
0x94      Keyboard LANG5
0x95      Keyboard LANG6
0x96      Keyboard LANG7
0x97      Keyboard LANG8
0x98      Keyboard LANG9
0x99      Keyboard Alternate Erase
0x9A      Keyboard SysReq/Attention
0x9B      Keyboard Cancel
0x9C      Keyboard Clear
0x9D      Keyboard Prior
0x9E      Keyboard Return
0x9F      Keyboard Separator
0xA0      Keyboard Out
0xA1      Keyboard Oper
0xA2      Keyboard Clear/Again
0xA3      Keyboard CrSel/Props
0xA4      Keyboard ExSel
0xE0      Keyboard LeftControl
0xE1      Keyboard LeftShift
0xE2      Keyboard LeftAlt
0xE3      Keyboard Left GUI
0xE4      Keyboard RightControl
0xE5      Keyboard RightShift
0xE6      Keyboard RightAlt
0xE7      Keyboard Right GUI
```

```
8        LEDs
         0x00    Undefined
         0x01    Num Lock
         0x02    Caps Lock
         0x03    Scroll Lock
         0x04    Compose
         0x05    Kana
         0x06    Power
         0x07    Shift
         0x08    Do Not Disturb
         0x09    Mute
         0x0A    Tone Enable
         0x0B    High Cut Filter
         0x0C    Low Cut Filter
         0x0D    Equalizer Enable
         0x0E    Sound Field On
         0x0F    Surround Field On
         0x10    Repeat
         0x11    Stereo
         0x12    Sampling Rate Detect
         0x13    Spinning
         0x14    CAV
         0x15    CLV
         0x16    Recording Format Detect
         0x17    Off-Hook
         0x18    Ring
         0x19    Message Waiting
         0x1A    Data Mode
         0x1B    Battery Operation
         0x1C    Battery OK
         0x1D    Battery Low
         0x1E    Speaker
         0x1F    Head Set
         0x20    Hold
         0x21    Microphone
         0x22    Coverage
         0x23    Night Mode
         0x24    Send Calls
         0x25    Call Pickup
         0x26    Conference
         0x27    Stand-by
         0x28    Camera On
         0x29    Camera Off
         0x2A    On-Line
         0x2B    Off-Line
         0x2C    Busy
         0x2D    Ready
         0x2E    Paper-Out
         0x2F    Paper-Jam
         0x30    Remote
         0x31    Forward
         0x32    Reverse
         0x33    Stop
         0x34    Rewind
         0x35    Fast Forward
         0x36    Play
         0x37    Pause
         0x38    Record
         0x39    Error
         0x3A    Usage Selected Indicator
         0x3B    Usage In Use Indicator
         0x3C    Usage Multi Mode Indicator
         0x3D    Indicator On
         0x3E    Indicator Flash
         0x3F    Indicator Slow Blink
```

```
            0x40    Indicator Fast Blink
            0x41    Indicator Off
            0x42    Flash On Time
            0x43    Slow Blink On Time
            0x44    Slow Blink Off Time
            0x45    Fast Blink On Time
            0x46    Fast Blink Off Time
            0x47    Usage Indicator Color
            0x48    Red
            0x49    Green
            0x4A    Amber
            0x4B    Generic Indicator
            0x4C    System Suspend
            0x4D    External Power Connected
            0x4C-FFFF      Reserved

9       Button
            0x00    No Button Pressed
            *       Button %d

10      Ordinal
            0x00    Unused
            *       Instance %d

11      Telephony
            0x00    Unassigned
            0x01    Phone
            0x02    Answering Machine
            0x03    Message Controls
            0x04    Handset
            0x05    Headset
            0x06    Telephony Key Pad
            0x07    Programmable Button
            0x20    Hook Switch
            0x21    Flash
            0x22    Feature
            0x23    Hold
            0x24    Redial
            0x25    Transfer
            0x26    Drop
            0x27    Park
            0x28    Forward Calls
            0x29    Alternate Function
            0x2A    Line
            0x2B    Speaker Phone
            0x2C    Conference
            0x2D    Ring Enable
            0x2E    Ring Select
            0x2F    Phone Mute
            0x30    Caller ID
            0x50    Speed Dial
            0x51    Store Number
            0x52    Recall Number
            0x53    Phone Directory
            0x70    Voice Mail
            0x71    Screen Calls
            0x72    Do Not Disturb
            0x73    Message
            0x74    Answer On/Off
            0x90    Inside Dial Tone
            0x91    Outside Dial Tone
            0x92    Inside Ring Tone
            0x93    Outside Ring Tone
            0x94    Priority Ring Tone
            0x95    Inside Ringback
            0x96    Priority Ringback
```

```
         0x97      Line Busy Tone
         0x98      Reorder Tone
         0x99      Call Waiting Tone
         0x9A      Confirmation Tone 1
         0x9B      Confirmation Tone 2
         0x9C      Tones Off
         0xB0      Phone Key 0
         0xB1      Phone Key 1
         0xB2      Phone Key 2
         0xB3      Phone Key 3
         0xB4      Phone Key 4
         0xB5      Phone Key 5
         0xB6      Phone Key 6
         0xB7      Phone Key 7
         0xB8      Phone Key 8
         0xB9      Phone Key 9
         0xBA      Phone Key Star
         0xBB      Phone Key Pound
         0xBC      Phone Key A
         0xBD      Phone Key B
         0xBE      Phone Key C
         0xBF      Phone Key D

12       Consumer
         0x00      Unassigned
         0x01      Consumer Control
         0x02      Numeric Key Pad
         0x03      Programmable Buttons
         0x20      +10
         0x21      +100
         0x22      AM/PM
         0x30      Power
         0x31      Reset
         0x32      Sleep
         0x33      Sleep After
         0x34      Sleep Mode
         0x35      Illumination
         0x36      Function Buttons
         0x40      Menu
         0x41      Menu  Pick
         0x42      Menu Up
         0x43      Menu Down
         0x44      Menu Left
         0x45      Menu Right
         0x46      Menu Escape
         0x47      Menu Value Increase
         0x48      Menu Value Decrease
         0x60      Data On Screen
         0x61      Closed Caption
         0x62      Closed Caption Select
         0x63      VCR/TV
         0x64      Broadcast Mode
         0x65      Snapshot
         0x66      Still
         0x80      Selection
         0x81      Assign Selection
         0x82      Mode Step
         0x83      Recall Last
         0x84      Enter Channel
         0x85      Order Movie
         0x86      Channel
         0x87      Media Selection
         0x88      Media Select Computer
         0x89      Media Select TV
         0x8A      Media Select WWW
         0x8B      Media Select DVD
```

```
0x8C    Media Select Telephone
0x8D    Media Select Program Guide
0x8E    Media Select Video Phone
0x8F    Media Select Games
0x90    Media Select Messages
0x91    Media Select CD
0x92    Media Select VCR
0x93    Media Select Tuner
0x94    Quit
0x95    Help
0x96    Media Select Tape
0x97    Media Select Cable
0x98    Media Select Satellite
0x99    Media Select Security
0x9A    Media Select Home
0x9B    Media Select Call
0x9C    Channel Increment
0x9D    Channel Decrement
0x9E    Media Select SAP
0xA0    VCR Plus
0xA1    Once
0xA2    Daily
0xA3    Weekly
0xA4    Monthly
0xB0    Play
0xB1    Pause
0xB2    Record
0xB3    Fast Forward
0xB4    Rewind
0xB5    Scan Next Track
0xB6    Scan Previous Track
0xB7    Stop
0xB8    Eject
0xB9    Random Play
0xBA    Select DisC
0xBB    Enter Disc
0xBC    Repeat
0xBD    Tracking
0xBE    Track Normal
0xBF    Slow Tracking
0xC0    Frame Forward
0xC1    Frame Back
0xC2    Mark
0xC3    Clear Mark
0xC4    Repeat From Mark
0xC5    Return To Mark
0xC6    Search Mark Forward
0xC7    Search Mark Backwards
0xC8    Counter Reset
0xC9    Show Counter
0xCA    Tracking Increment
0xCB    Tracking Decrement
0xE0    Volume
0xE1    Balance
0xE2    Mute
0xE3    Bass
0xE4    Treble
0xE5    Bass Boost
0xE6    Surround Mode
0xE7    Loudness
0xE8    MPX
0xE9    Volume Up
0xEA    Volume Down
0xF0    Speed Select
0xF1    Playback Speed
0xF2    Standard Play
```

```
0xF3    Long Play
0xF4    Extended Play
0xF5    Slow
0x100   Fan Enable
0x101   Fan Speed
0x102   Light
0x103   Light Illumination Level
0x104   Climate Control Enable
0x105   Room Temperature
0x106   Security Enable
0x107   Fire Alarm
0x108   Police Alarm
0x150   Balance Right
0x151   Balance Left
0x152   Bass Increment
0x153   Bass Decrement
0x154   Treble Increment
0x155   Treble Decrement
0x160   Speaker System
0x161   Channel Left
0x162   Channel Right
0x163   Channel Center
0x164   Channel Front
0x165   Channel Center Front
0x166   Channel Side
0x167   Channel Surround
0x168   Channel Low Frequency Enhancement
0x169   Channel Top
0x16A   Channel Unknown
0x170   Sub-channel
0x171   Sub-channel Increment
0x172   Sub-channel Decrement
0x173   Alternate Audio Increment
0x174   Alternate Audio Decrement
0x180   Application Launch Buttons
0x181   AL Launch Button Configuration Tool
0x182   AL Programmable Button Configuration
0x183   AL Consumer Control Configuration
0x184   AL Word Processor
0x185   AL Text Editor
0x186   AL Spreadsheet
0x187   AL Graphics Editor
0x188   AL Presentation App
0x189   AL Database App
0x18A   AL Email Reader
0x18B   AL Newsreader
0x18C   AL Voicemail
0x18D   AL Contacts/Address Book
0x18E   AL Calendar/Schedule
0x18F   AL Task/Project Manager
0x190   AL Log/Journal/Timecard
0x191   AL Checkbook/Finance
0x192   AL Calculator
0x193   AL A/V Capture/Playback
0x194   AL Local Machine Browser
0x195   AL LAN/WAN Browser
0x196   AL Internet Browser
0x197   AL Remote Networking/ISP Connect
0x198   AL Network Conference
0x199   AL Network Chat
0x19A   AL Telephony/Dialer
0x19B   AL Logon
0x19C   AL Logoff
0x19D   AL Logon/Logoff
0x19E   AL Terminal Lock/Screensaver
0x19F   AL Control Panel
```

```
        0x1A0    AL Command Line Processor/Run
        0x1A1    AL Process/Task Manager
        0x1A2    AL Select Tast/Application
        0x1A3    AL Next Task/Application
        0x1A4    AL Previous Task/Application
        0x1A5    AL Preemptive Halt Task/Application
        0x200    Generic GUI Application Controls
        0x201    AC New
        0x202    AC Open
        0x203    AC Close
        0x204    AC Exit
        0x205    AC Maximize
        0x206    AC Minimize
        0x207    AC Save
        0x208    AC Print
        0x209    AC Properties
        0x21A    AC Undo
        0x21B    AC Copy
        0x21C    AC Cut
        0x21D    AC Paste
        0x21E    AC Select All
        0x21F    AC Find
        0x220    AC Find and Replace
        0x221    AC Search
        0x222    AC Go To
        0x223    AC Home
        0x224    AC Back
        0x225    AC Forward
        0x226    AC Stop
        0x227    AC Refresh
        0x228    AC Previous Link
        0x229    AC Next Link
        0x22A    AC Bookmarks
        0x22B    AC History
        0x22C    AC Subscriptions
        0x22D    AC Zoom In
        0x22E    AC Zoom Out
        0x22F    AC Zoom
        0x230    AC Full Screen View
        0x231    AC Normal View
        0x232    AC View Toggle
        0x233    AC Scroll Up
        0x234    AC Scroll Down
        0x235    AC Scroll
        0x236    AC Pan Left
        0x237    AC Pan Right
        0x238    AC Pan
        0x239    AC New Window
        0x23A    AC Tile Horizontally
        0x23B    AC Tile Vertically
        0x23C    AC Format

13      Digitizer
        0x00     Undefined
        0x01     Digitizer
        0x02     Pen
        0x03     Light Pen
        0x04     Touch Screen
        0x05     Touch Pad
        0x06     White Board
        0x07     Coordinate Measuring Machine
        0x08     3-D Digitizer
        0x09     Stereo Plotter
        0x0A     Articulated Arm
        0x0B     Armature
        0x0C     Multiple Point Digitizer
```

```
              0x0D    Free Space Wand
              0x20    Stylus
              0x21    Puck
              0x22    Finger
              0x30    Tip Pressure
              0x31    Barrel Pressure
              0x32    In Range
              0x33    Touch
              0x34    Untouch
              0x35    Tap
              0x36    Quality
              0x37    Data Valid
              0x38    Transducer Index
              0x39    Tablet Function Keys
              0x3A    Program Change Keys
              0x3B    Battery Strength
              0x3C    Invert
              0x3D    X Tilt
              0x3E    Y Tilt
              0x3F    Azimuth
              0x40    Altitude
              0x41    Twist
              0x42    Tip Switch
              0x43    Secondary Tip Switch
              0x44    Barrel Switch
              0x45    Eraser
              0x46    Tablet Pick

      15      Physical Interface Device

      16      Unicode
              *       Unicode Char u%04x


      20      Alphnumeric Display
              0x00    Undefined
              0x01    Alphanumeric Display
              0x20    Display Attributes Report
              0x21    ASCII Character Set
              0x22    Data Read Back
              0x23    Font Read Back
              0x24    Display Control Report
              0x25    Clear Display
              0x26    Display Enable
              0x27    Screen Saver Delay
              0x28    Screen Saver Enable
              0x29    Vertical Scroll
              0x2A    Horizontal Scroll
              0x2B    Character Report
              0x2C    Display Data
              0x2D    Display Status
              0x2E    Stat Not Ready
              0x2F    Stat Ready
              0x30    Err Not a loadable character
              0x31    Err Font data cannot be read
              0x32    Cursor Position Report
              0x33    Row
              0x34    Column
              0x35    Rows
              0x36    Columns
              0x37    Cursor Pixel Positioning
              0x38    Cursor Mode
              0x39    Cursor Enable
              0x3A    Cursor Blink
              0x3B    Font Report
              0x3C    Font Data
              0x3D    Character Width
```

```
        0x3E    Character Height
        0x3F    Character Spacing Horizontal
        0x40    Character Spacing Vertical
        0x41    Unicode Character Set

128     Monitor
        0x00    Undefined
        0x01    Monitor Control
        0x02    EDID Information
        0x03    VDIF Information
        0x04    VESA Version
        0x05    On Screen Display
        0x06    Auto Size Center
        0x07    Polarity Horz Synch
        0x08    Polarity Vert Synch
        0x09    Sync Type
        0x0A    Screen Position
        0x0B    Horizontal Frequency
        0x0C    Vertical Frequency

129     Monitor Enumerated Values
        0x00    unassigned
        *       ENUM %d

130     VESA Virtual Controls
        0x10    Brightness
        0x12    Contrast
        0x16    Video Gain Red
        0x18    Video Gain Green
        0x1A    Video Gain Blue
        0x1C    Focus
        0x20    Horizontal Position
        0x22    Horizontal Size
        0x24    Horizontal Pincushion
        0x26    Horizontal Pincushion Balance
        0x28    Horizontal Misconvergence
        0x2A    Horizontal Linearity
        0x2C    Horizontal Linearity Balance
        0x30    Vertical Position
        0x32    Vertical Size
        0x34    Vertical Pincushion
        0x36    Vertical Pincushion Balance
        0x38    Vertical Misconvergence
        0x3A    Vertical Linearity
        0x3C    Vertical Linearity Balance
        0x40    Parallelogram Distortion
        0x42    Trapezoidal Distortion
        0x44    Tilt
        0x46    Top Corner Distortion Control
        0x48    Top Corner Distortion Balance
        0x4A    Bottom Corner Distortion Control
        0x4C    Bottom Corner Distortion Balance
        0x56    Moiré Horizontal
        0x58    Moiré Vertical
        0x5E    Input Level Select
        0x60    Input Source Select
        0x62    Stereo Mode
        0x6C    Video Black Level Red
        0x6E    Video Black Level Green
        0x70    Video Black Level Blue

131     VESA Command
        0x00    Undefined
        0x01    Settings
        0x02    Degauss
```

```
132      Power Device
         0x00    Undefined
         0x01    iName
         0x02    PresentStatus
         0x03    ChangedStatus
         0x04    UPS
         0x05    PowerSupply
         0x10    BatterySystem
         0x11    BatterySystemID
         0x12    Battery
         0x13    BatteryID
         0x14    Charger
         0x15    ChargerID
         0x16    PowerConverter
         0x17    PowerConverterID
         0x18    OutletSystem
         0x19    OutletSystemID
         0x1A    Input
         0x1B    InputID
         0x1C    Output
         0x1D    OutputID
         0x1E    Flow
         0x1F    FlowID
         0x20    Outlet
         0x21    OutletID
         0x22    Gang
         0x23    GangID
         0x24    Sink
         0x25    SinkID
         0x30    Voltage
         0x31    Current
         0x32    Frequency
         0x33    ApparentPower
         0x34    ActivePower
         0x35    PercentLoad
         0x36    Temperature
         0x37    Humidity
         0x40    ConfigVoltage
         0x41    ConfigCurrent
         0x42    ConfigFrequency
         0x43    ConfigApparentPower
         0x44    ConfigActivePower
         0x45    ConfigPercentLoad
         0x46    ConfigTemperature
         0x47    ConfigHumidity
         0x50    SwitchOnControl
         0x51    SwitchOffControl
         0x52    ToggleControl
         0x53    LowVoltageTransfer
         0x54    HighVoltageTransfer
         0x55    DelayBeforeReboot
         0x56    DelayBeforeStartup
         0x57    DelayBeforeShutdown
         0x58    Test
         0x59    Vendorspecificcommand
         0x60    Present
         0x61    Good
         0x62    InternalFailure
         0x63    VoltageOutOfRange
         0x64    FrequencyOutOfRange
         0x65    Overload
         0x66    OverCharged
         0x67    OverTemperature
         0x68    ShutdownRequested
         0x69    ShutdownImminent
         0x6A    VendorSpecificAnswerValid
```

```
          0x6B     SwitchOn/Off
          0x6C     Switcheble
          0x6D     Used
          0x6E     Boost
          0x6F     Buck
          0x70     Initialized
          0x71     Tested

133       Battery System
          0x00     Undefined
          0x01     SMBBatteryMode
          0x02     SMBBatteryStatus
          0x03     SMBAlarmWarning
          0x04     SMBChargerMode
          0x05     SMBChargerStatus
          0x06     SMBChargerSpecInfo
          0x07     SMBSelectorState
          0x08     SMBSelectorPreset
          0x09     SMBSelectorInfo
          0x10     OptionalMfgFunction1
          0x11     OptionalMfgFunction2
          0x12     OptionalMfgFunction3
          0x13     OptionalMfgFunction4
          0x14     OptionalMfgFunction5
          0x15     ConnectionToSMBus
          0x16     OutputConnection
          0x17     ChargerConnection
          0x18     BatteryInsertion
          0x19     Usenext
          0x1A     OKToUse
          0x28     ManufacturerAccess
          0x29     RemainingCapacityLimit
          0x2A     RemainingTimeLimit
          0x2B     AtRate
          0x2C     CapacityMode
          0x2D     BroadcastToCharger
          0x2E     PrimaryBattery
          0x2F     ChargeController
          0x40     TerminateCharge
          0x41     TermminateDischarge
          0x42     BelowRemainingCapacityLimit
          0x43     RemainingTimeLimitExpired
          0x44     Charging
          0x45     Discharging
          0x46     FullyCharged
          0x47     FullyDischarged
          0x48     ConditionningFlag
          0x49     AtRateOK
          0x4A     SMBErrorCode
          0x4B     NeedReplacement
          0x60     AtRateTimeToFull
          0x61     AtRateTimeToEmpty
          0x62     AverageCurrent
          0x63     Maxerror
          0x64     RelativeStateOfCharge
          0x65     AbsoluteStateOfCharge
          0x66     RemainingCapacity
          0x67     FullChargeCapacity
          0x68     RunTimeToEmpty
          0x69     AverageTimeToEmpty
          0x6A     AverageTimeToFull
          0x6B     CycleCount
          0x80     BattPackModelLevel
          0x81     InternalChargeController
          0x82     PrimaryBatterySupport
          0x83     DesignCapacity
```

```
        0x84    SpecificationInfo
        0x85    ManufacturerDate
        0x86    SerialNumber
        0x87    iManufacturerName
        0x88    iDevicename
        0x89    iDeviceChemistery
        0x8A    iManufacturerData
        0x8B    Rechargeable
        0x8C    WarningCapacityLimit
        0x8D    CapacityGranularity1
        0x8E    CapacityGranularity2
        0xC0    InhibitCharge
        0xC1    EnablePolling
        0xC2    ResetToZero
        0xD0    ACPresent
        0xD1    BatteryPresent
        0xD2    PowerFail
        0xD3    AlarmInhibited
        0xD4    ThermistorUnderRange
        0xD5    ThermistorHot
        0xD6    ThermistorCold
        0xD7    ThermistorOverRange
        0xD8    VoltageOutOfRange
        0xD9    CurrentOutOfRange
        0xDA    CurrentNotRegulated
        0xDB    VoltageNotRegulated
        0xDC    MasterMode
        0xDD    ChargerBattery/HostControlled
        0xF0    ChargerSpecInfo
        0xF1    ChargerSpecRef
        0xF2    Level2
        0xF3    Level3

140     Bar Code Scanner

141     Scale Device

144     Camera Control

145     Arcade Device

# Some Micro$oft non-standard extensions
0xff00  Microsoft
        0xe9    Base Up
        0xea    Base Down

# APC non-standard page?  (1.6.2003) Riccardo "VIC" Torrini
0xff84  __APC_Power Device
        0x00    Undefined
        0x01    iName
        0x02    PresentStatus
        0x03    ChangedStatus
        0x04    UPS
        0x05    PowerSupply
        0x10    BatterySystem
        0x11    BatterySystemID
        0x12    Battery
        0x13    BatteryID
        0x14    Charger
        0x15    ChargerID
        0x16    PowerConverter
        0x17    PowerConverterID
        0x18    OutletSystem
        0x19    OutletSystemID
        0x1A    Input
        0x1B    InputID
```

```
0x1C    Output
0x1D    OutputID
0x1E    Flow
0x1F    FlowID
0x20    Outlet
0x21    OutletID
0x22    Gang
0x23    GangID
0x24    Sink
0x25    SinkID
0x30    Voltage
0x31    Current
0x32    Frequency
0x33    ApparentPower
0x34    ActivePower
0x35    PercentLoad
0x36    Temperature
0x37    Humidity
0x40    ConfigVoltage
0x41    ConfigCurrent
0x42    ConfigFrequency
0x43    ConfigApparentPower
0x44    ConfigActivePower
0x45    ConfigPercentLoad
0x46    ConfigTemperature
0x47    ConfigHumidity
0x50    SwitchOnControl
0x51    SwitchOffControl
0x52    ToggleControl
0x53    LowVoltageTransfer
0x54    HighVoltageTransfer
0x55    DelayBeforeReboot
0x56    DelayBeforeStartup
0x57    DelayBeforeShutdown
0x58    Test
0x59    Vendorspecificcommand
0x60    Present
0x61    Good
0x62    InternalFailure
0x63    VoltageOutOfRange
0x64    FrequencyOutOfRange
0x65    Overload
0x66    OverCharged
0x67    OverTemperature
0x68    ShutdownRequested
0x69    ShutdownImminent
0x6A    VendorSpecificAnswerValid
0x6B    SwitchOn/Off
0x6C    Switcheble
0x6D    Used
0x6E    Boost
0x6F    Buck
0x70    Initialized
0x71    Tested

0xff85  __APC_Battery System
        0x00    Undefined
        0x01    SMBBatteryMode
        0x02    SMBBatteryStatus
        0x03    SMBAlarmWarning
        0x04    SMBChargerMode
        0x05    SMBChargerStatus
        0x06    SMBChargerSpecInfo
        0x07    SMBSelectorState
        0x08    SMBSelectorPreset
        0x09    SMBSelectorInfo
```

```
0x10     OptionalMfgFunction1
0x11     OptionalMfgFunction2
0x12     OptionalMfgFunction3
0x13     OptionalMfgFunction4
0x14     OptionalMfgFunction5
0x15     ConnectionToSMBus
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0x18     BatteryInsertion
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0x2E     PrimaryBattery
0x2F     ChargeController
0x40     TerminateCharge
0x41     TermminateDischarge
0x42     BelowRemainingCapacityLimit
0x43     RemainingTimeLimitExpired
0x44     Charging
0x45     Discharging
0x46     FullyCharged
0x47     FullyDischarged
0x48     ConditionningFlag
0x49     AtRateOK
0x4A     SMBErrorCode
0x4B     NeedReplacement
0x60     AtRateTimeToFull
0x61     AtRateTimeToEmpty
0x62     AverageCurrent
0x63     Maxerror
0x64     RelativeStateOfCharge
0x65     AbsoluteStateOfCharge
0x66     RemainingCapacity
0x67     FullChargeCapacity
0x68     RunTimeToEmpty
0x69     AverageTimeToEmpty
0x6A     AverageTimeToFull
0x6B     CycleCount
0x80     BattPackModelLevel
0x81     InternalChargeController
0x82     PrimaryBatterySupport
0x83     DesignCapacity
0x84     SpecificationInfo
0x85     ManufacturerDate
0x86     SerialNumber
0x87     iManufacturerName
0x88     iDevicename
0x89     iDeviceChemistery
0x8A     iManufacturerData
0x8B     Rechargeable
0x8C     WarningCapacityLimit
0x8D     CapacityGranularity1
0x8E     CapacityGranularity2
0xC0     InhibitCharge
0xC1     EnablePolling
0xC2     ResetToZero
0xD0     ACPresent
0xD1     BatteryPresent
0xD2     PowerFail
0xD3     AlarmInhibited
0xD4     ThermistorUnderRange
```

```
0xD5      ThermistorHot
0xD6      ThermistorCold
0xD7      ThermistorOverRange
0xD8      VoltageOutOfRange
0xD9      CurrentOutOfRange
0xDA      CurrentNotRegulated
0xDB      VoltageNotRegulated
0xDC      MasterMode
0xDD      ChargerBattery/HostControlled
0xF0      ChargerSpecInfo
0xF1      ChargerSpecRef
0xF2      Level2
0xF3      Level3
```