SPARKY SBC GPIO LIST

SPARKY 40 Pin Connector			
NAME	PIN	PIN	NAME
VCC_3V3	1	2	DCIN +5V
GPIOE3/I2C -2 SDA	3	4	DCIN +5V
GPIOE2/I2C -2 SCLK	5	6	GND
GPIOB14	7	8	UART5_TX/GPIOD25
GND	9	10	UART5_RX/GPIOD24
GPIOB15	11	12	I2S_BCLK0/GPIOA28
GPIOB16	13	14	GND
GPIOB17	15	16	GPIOB31
VCC_3V3	17	18	GPIOB30
GPIOC25/ I2C-3 SDA /SPI0_MOSI	19	20	GND
GPIOC24/SPI0_MISO	21	22	GPIOB12
GPIOC22/I2C -3 SCLK/SPIO_SCLK	23	24	SPIO_SS/GPIOC23
GND	25	26	SPDIF/GPIOC27
GPIOE1/I2C-1 SDA	27	28	I2C -1 SCLK/GPIOE0
GPIOA30/I2S_MCLK0_2	29	30	GND
GPIOB18	31	32	GPIOB3
GPIOB4	33	34	GND
GPIOA29/I2S_LRCLK0_2	35	36	GPIOB13
GPIOB19	37	38	I2S_DIN_2/GPIOA31
GND	39	40	I2S_DOUT_2/GPIOA27

Access of gpio from user application:

A port 0-31 , B port 32-63, C port 64-95 , D port 96 to 127 ,E port 128-131

Example :
B15 = 32 +15 = 47
B16 = 32 + 16 = 48
B19 = 32 + 19 = 51
 D18 = 96 +18 = 114 (status LED on sparky)
echo 114 > /sys/class/gpio/export
echo "out" > /sys/class/gpio/gpio114/direction
echo 1 > /sys/class/gpio/gpio114/value
echo 114 > /sys/class/gpio/unexport

example : (saprky sbc ubuntu image) on Terminal run below comands :
note : sparky_gpio supports only direction out , sparky_gpio_in executable has to use for in.

/sbin/sparky_gpio 114 1 (on Status LED , GPIOD18 out high)
/sbin/sparky_gpio 114 0 (off Status LED , GPIOD18 out low)

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