

OPERATOR INTERFACE PRODUCTS APPLICATION NOTE

Subject: Display signed numbers using OIL AN# 1085A Date: January 13, 1998 Name: Shiu Moy Page: 1 of 1 Description: An OIL routine example for displaying positive and negative numbers.

This is a stand alone routine to display signed numbers. In this example, the positive decimal number entered is intended to load register #30 as a hex value. The signed number is determine using the 2's compliment algorithm. Below is the range of signed numbers supported and the OIL instructions.

Range	Hex	Decimal
Positive number	0000H to 7FFFH	0 to 32767
Negative number	8000H to FFFFH	-32767 to -1

%start @5,0 tr, kb(dddd), #30	;this portion of code is intended to load a hex value ;for this example
@5,1 if #30 >= &8000	wheels for pegative range
not #30 add 1, #30	;check for negative range ;if negative, use 2's complement to determine negative value
"-": #30: go done	;display negative number
" ": #30 % done @ 5,1 % start	;display positive number