

## 2.11.4 VARIABLES (CONT'D)

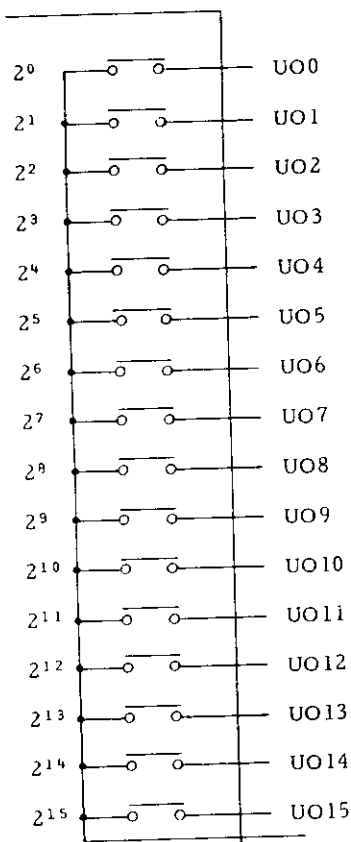
### B. Interface Output Signals (#1100 Through #1115, #1132)<sup>†</sup>

a. When one of system variables #1100 through #1115 is specified to the left-hand of an operational expression, an on or off signal can be sent to each of user-macro-dedicated 16-point output signals. The relationships between the output signals and the system variables are as shown below:

#1107	#1106	#1105	#1104	#1103	#1102	#1101	#1100
U07	U06	U05	U04	U03	U02	U01	U00
$2^7$	$2^6$	$2^5$	$2^4$	$2^3$	$2^2$	$2^1$	$2^0$
#1115	#1114	#1113	#1112	#1111	#1110	#1109	#1108
U15	U14	U13	U12	U11	U10	U09	U08
$2^{15}$	$2^{14}$	$2^{13}$	$2^{12}$	$2^{11}$	$2^{10}$	$2^9$	$2^8$

Variable Value	Output Signal
1	Contact Closed
0	Contact Open

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When 1.0 or 0.0 are substituted in any of #1100 through #1115, the associated output contact is output in the "closed" or "open" state.

b. When system variable #1132 is specified, the output signals (U00 through U015) that consist of 16 points (16 bits) are collectively output. At this time, the decimal positive value substituted in #1132 is output in the form of binary 16-bit value.

$$\#1132 = \sum_{i=0}^{15} \# [1100 + i] * 2^i$$

c. With system variables #1100 through #1132, the value sent last is retained. Hence, when one of them is written to the right-hand of an operational expression, its value is read.

### d. Considerations

When any values other than 1.0 or 0.0 are substituted into one of #1100 through #1115, the values are handled as follows:

"Blank" is assumed to be "0."

Values other than "blank" and 0 are assumed to be "1."

### Sample Program

#1107 = #10 ; (#10 = 1.5)

The output signal of bit 2<sup>7</sup> (U07) is output in the contact (closed) state.

#1132 = (#1132 AND 240) OR (#8 AND 15;)

The output signal of bits 2<sup>4</sup> through 2<sup>7</sup> (U04 through U07) are output without change and the contents of local variable #8 are output to the output signals of bits 2<sup>0</sup> through 2<sup>3</sup> (U00 through U03).

(Decimal 240) = 11110000,

(Decimal 15) = 00001111)

### C. Tool Offset Amount And Work Coordinate System Shift Amount (#2001 Through #2099, #2500 Through #2086)

a. When one of system variables #2001 through #2099 is specified to the right-hand of an operational expression, the tool offset amount can be read.

b. When one of system variables #2500 through #2806 is specified to the right-hand of an operational expression, the work coordinate system shift amount (and the external work coordinate system correction amount) can be read.