

How can I use the BITAND function in Excel?

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June 28, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I use the BITAND function in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=157149>

The BITAND function in Excel is a useful tool that allows users to perform bitwise operations on binary values. This function takes two binary inputs and returns the result of a bitwise AND operation. This can be beneficial in various scenarios such as comparing two sets of binary data or extracting specific information from binary values. To use the BITAND function, simply input the two binary values in the designated cells and use the function in a separate cell to obtain the desired result. This function can provide a more efficient and accurate way of handling binary data in Excel.

This article describes the formula syntax and usage of the BITAND function in Microsoft Excel.

Description

Returns a bitwise 'AND' of two numbers.

Syntax

BITAND(number1, number2)

The BITAND function syntax has the following arguments.

Number1 Required. Must be in decimal form and greater than or equal to 0.

Number2 Required. Must be in decimal form and greater than or equal to 0.

Remarks

BITAND returns a decimal number.

The result is a bitwise 'AND' of its parameters.

The value of each bit position is counted only if both parameter's bits at that position are 1.

The values returned from the bit positions progress from right to left as powers of 2. The rightmost bit returns 1 (2^0), the bit to its left returns 2 (2^1), and so on.

If either argument is less than 0, BITAND returns the #NUM! error value.

If either argument is a non-integer or is greater than $(2^{48})-1$, BITAND returns the #NUM! error value.

If either argument is a non-numeric value, BITAND returns the #VALUE! error value.