Useful symbols

|  |  |  |  |
| --- | --- | --- | --- |
| Symbol | Meaning | Symbol | Meaning |
| ≡ | Is defined as | ≤ | Less than or equal to |
| = | Is equal to |  | Sigma, World state |
| ≠ | Is not equal to |  | Mu, Machine state |
| ║...║ | Length of, size of |  | Upsilon, Ethereum state transition function |
|  | Is an element of |  | Block level state transition function |
|  | Is not an element of | . | Sequence concatenation |
|  | For all |  | There exists |
|  | Union | ᴧ | Contract creation function |
|  | Logical AND |  | Increment |
| : | Such that |  |  |
| {} | Set |  |  |
| () | Function of tuple |  |  |
| [] | Array indexing |  |  |
|  | Logical OR |  |  |
| > | Is greater than |  |  |
| + | Addition |  |  |
| - | Subtraction |  |  |
| ∑ | Summation |  |  |
| { | Switch cases |  |  |
|  | Floor, lowest element |  |  |
|  | Ceiling, highest element |  |  |
|  | No of bytes |  |  |
|  | Exclusive OR |  |  |
| (a,b) | Real numbers >= a and < b |  |  |
|  | Empty set, null |  |  |

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