

Video 01 INTRODUCTION with SIMON THOMPSON Professor of Logic & Computation, University of Kent



Numerical expressions

Expressions like (2+(3*4)) ...

... or (2+(3*v)), where v is a variable.



Evaluate them

(2+(3*4)) has the value 14 ...

... and (2+(3*v)) has the value -4, if v is -2.



Simplify them

(0+(1*v)) simplifies to v.



Compile them for a virtual machine

(2+(3*v)) compiles to the instruction sequence

PUSH 2, PUSH 3, FETCH v, MUL₂, ADD₂

