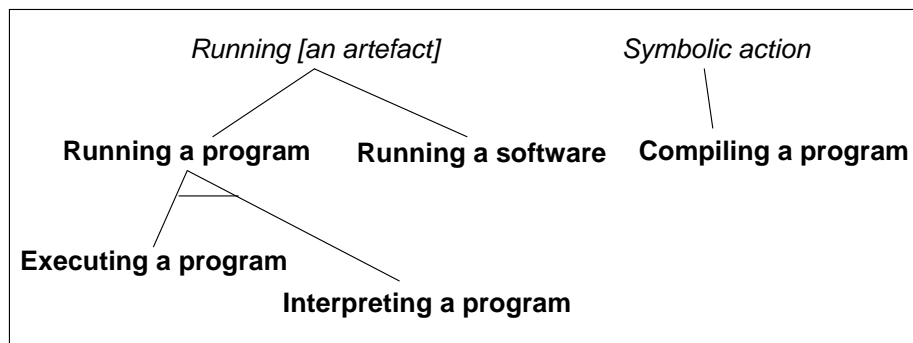


## Action on program and software-OS

// Metadata

Name	Action on program and software-OS
Keywords	Running a program, Executing a program, Running a software, Compiling a program
Creation date	March 30 <sup>th</sup> , 2009
Has contributor	Frédéric Fürst, Gilles Kassel, Pascal Lando, Anne Lapujade
Used ontology engineering methodology	OntoSpec
Is of type	Core ontology
Natural language	English
Has ontology language	OntoSpec
Has formality level	Semi-informal
Ressource locator	<a href="http://www.laria.u-picardie.fr/IC/site/IMG/pdf/Action_on_program_and_software-OS.pdf">http://www.laria.u-picardie.fr/IC/site/IMG/pdf/Action_on_program_and_software-OS.pdf</a>
Version	1.0
Number of concepts (classes)	5
Number of relations (properties)	0

// Concepts



Running a program

### Meta-properties

RUNNING A PROGRAM is RIGID (+**R**). RUNNING A PROGRAM is EXTERNALLY-DEPENDENT (+**D**).

### Properties

[EP/SLD] RUNNING A PROGRAM is a RUNNING which *has for data* a PROGRAM *at a* TIME INTERVAL and which *has for agent* a PLATFORM *at a* TIME INTERVAL.

## Comments

[DEF] RUNNING A PROGRAM is an action by which a PLATFORM carries out the instructions of a PROGRAM.

## Executing a program

### Meta-properties

EXECUTING A PROGRAM is RIGID (+**R**). EXECUTING A PROGRAM is EXTERNALLY-DEPENDENT (+**D**).

### Properties

[EP/SLD] EXECUTING A PROGRAM is a RUNNING A PROGRAM which *has for data* an EXECUTABLE PROGRAM or an INTERMEDIATE CODE *at* a TIME INTERVAL and which *has for instrument* an OPERATING SYSTEM or a VIRTUAL MACHINE *at* a TIME INTERVAL. [EP/ICL] No EXECUTING A PROGRAM is an INTERPRETING A PROGRAM.

### Comments

[DEF] EXECUTING A PROGRAM is a RUNNING A PROGRAM where the PROGRAM, an EXECUTABLE PROGRAM or INTERMEDIATE CODE, is directly executed, without being previously translated into some intermediate representation.

## Interpreting a program

### Meta-properties

INTERPRETING A PROGRAM is RIGID (+**R**). INTERPRETING A PROGRAM is EXTERNALLY-DEPENDENT (+**D**).

### Properties

[EP/SLD] INTERPRETING A PROGRAM is a RUNNING A PROGRAM which *has for data* an INTERPRETABLE PROGRAM *at* a TIME INTERVAL and which *has for instrument* an INTERPRETER *at* a TIME INTERVAL. [EP/ER] Every INTERPRETING A PROGRAM *has for part* an EXECUTING A PROGRAM. [EP/ICL] No INTERPRETING A PROGRAM is an EXECUTING A PROGRAM.

### Comments

[DEF] INTERPRETING A PROGRAM is a RUNNING A PROGRAM where the PROGRAM, an INTERPRETABLE PROGRAM, is first translated into some efficient intermediate representation and then immediately executed.

## Running a software

### Meta-properties

RUNNING A SOFTWARE is RIGID (+**R**). RUNNING A SOFTWARE is EXTERNALLY-DEPENDENT (+**D**).

### Properties

[EP/SLD] RUNNING A SOFTWARE is a RUNNING which *has for data* a SOFTWARE *at* a TIME INTERVAL and which *has for agent* a PLATFORM *at* a TIME INTERVAL.

### Comments

[DEF] RUNNING A SOFTWARE is an action by which a PLATFORM carries out the instructions of the software's main program.

## Compiling a program

### Meta-properties

COMPILING A PROGRAM is RIGID (+**R**). COMPILING A PROGRAM is EXTERNALLY-DEPENDENT (+**D**).

### Properties

[EP/SL] COMPILING A PROGRAM is a SYMBOLIC ACTION which *has for data* a COMPILABLE PROGRAM *at* a TIME INTERVAL and which *has for instrument* a COMPILER *at* a TIME INTERVAL.

**Comment**

[DEF] COMPILING A PROGRAM is an action consisting in translating a computer language expression in another expression specified in a lower level language.