

# SCALOPES: automatic generation of data flow tasks

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March 2, 2016, revision r23065

## 1 Imported Domains

```
import entity from "ri.newgen"  
  
import effect from "effects.newgen"
```

## 2 Representing How Tasks use Buffers

```
task_buffers = input:entity{} x output:entity{}  
  
entity_task_buffers = entity -> task_buffers  
  
sesam_buffers_processing_context = kernel_tasks:entity{} x  
server_tasks:entity{} x kernel_buffers:entity_task_buffers x  
server_buffers:entity_task_buffers x buffers:entity{}
```

## Annexe: NewGen Declarations – effects.newgen

```
—  
  
-- -----  
-- -----  
--  
-- WARNING  
--  
-- THIS FILE HAS BEEN AUTOMATICALLY GENERATED  
--  
-- DO NOT MODIFY IT  
--  
-- -----  
-- -----
```

```
-- Imported domains
-- -----
import entity from "ri.newgen" ;
import effect from "effects.newgen" ;

-- External domains
-- -----

-- Domains
-- -----
entity_task_buffers = entity -> task_buffers ;
sesam_buffers_processing_context = kernel_tasks:entity{} x server_tasks:entity{} x kernel_
task_buffers = input:entity{} x output:entity{} ;
```