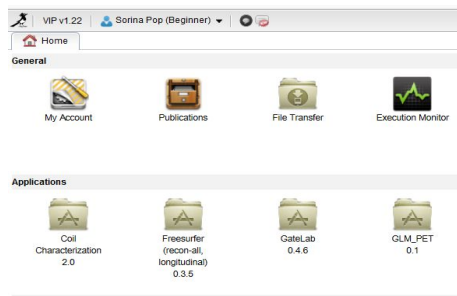

VIP, CARMIN, Boutiques and Dirac to access distributed resources

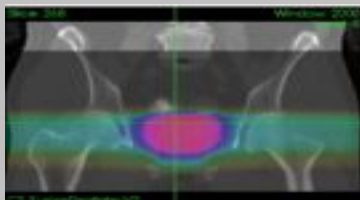
— Functionalities and use cases —

The Virtual Imaging Platform

<https://vip.creatis.insa-lyon.fr>

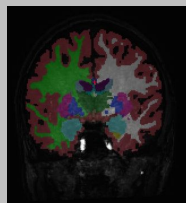


Cancer therapy simulation



Prostate radiotherapy plan simulated with GATE(L. Grevillot and D. Sarrut)

Neuro-image analysis



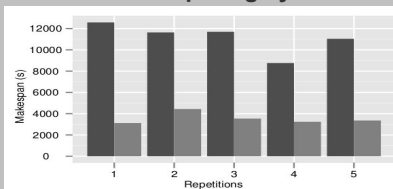
Brain tissue segmentation with Freesurfer

Image simulation



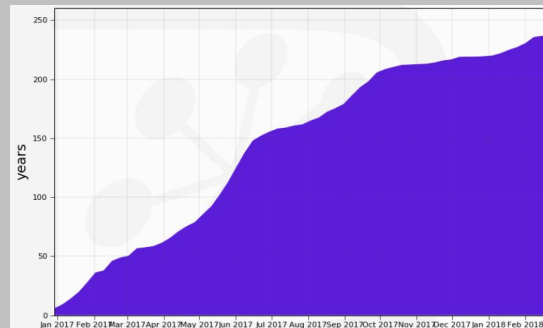
Echocardiography simulated with FIELD-II (O. Bernard *et al*)

Modeling and optimization of distributed computing systems



Acceleration yielded by non-clairvoyant task replication (R. Ferreira da Silva *et al*)

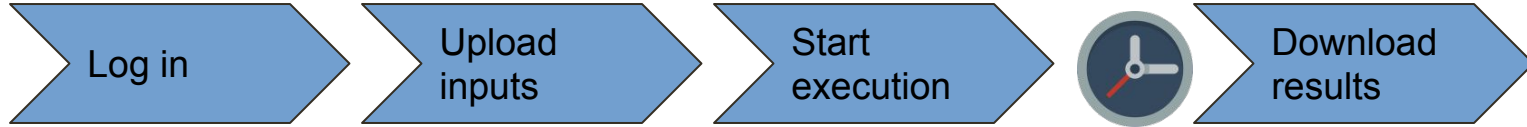
Supported by EGI Infrastructure
Uses biomed VO (~65 sites in Europe and beyond)
230 cumulated CPU years utilized by VIP applications in 1 year



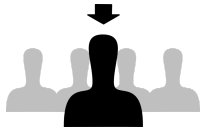
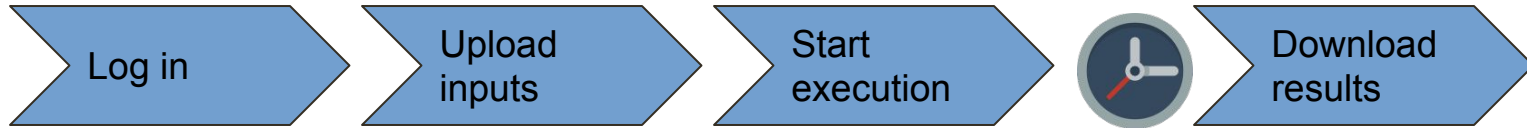
1000+ registered users in May 2019
55 publications identified since 2011



VIP usages



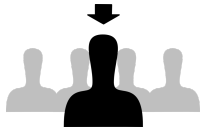
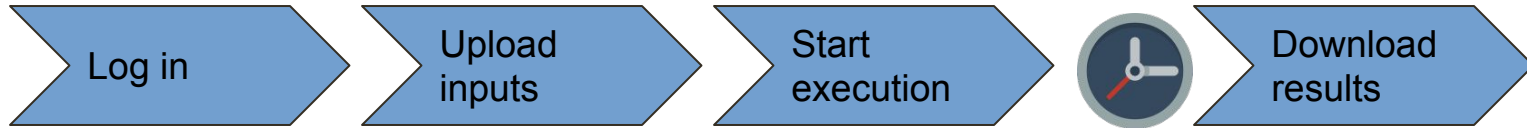
VIP usages



- I want to use VIP from my tool



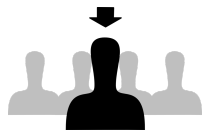
VIP usages



- I want to use VIP from my tool
- I want to share applications easily



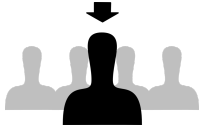
VIP usages



- I want to use VIP from my tool
- I want to share applications easily
- I want to use GPUs

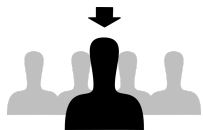


Issue : I want to use VIP from my tool



I've developed a tool with great features (visualization)
I would like to do some processing on VIP directly from it

Issue : I want to use VIP from my tool



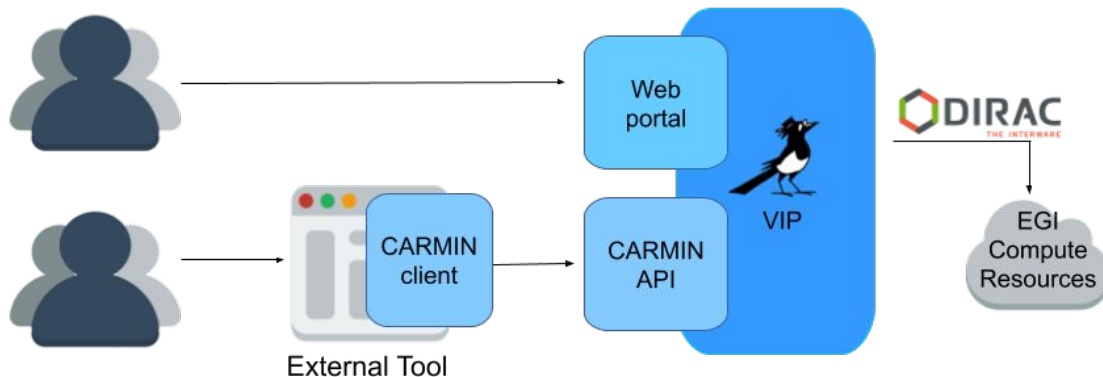
I've developed a tool with great features (visualization)
I would like to do some processing on VIP directly from it



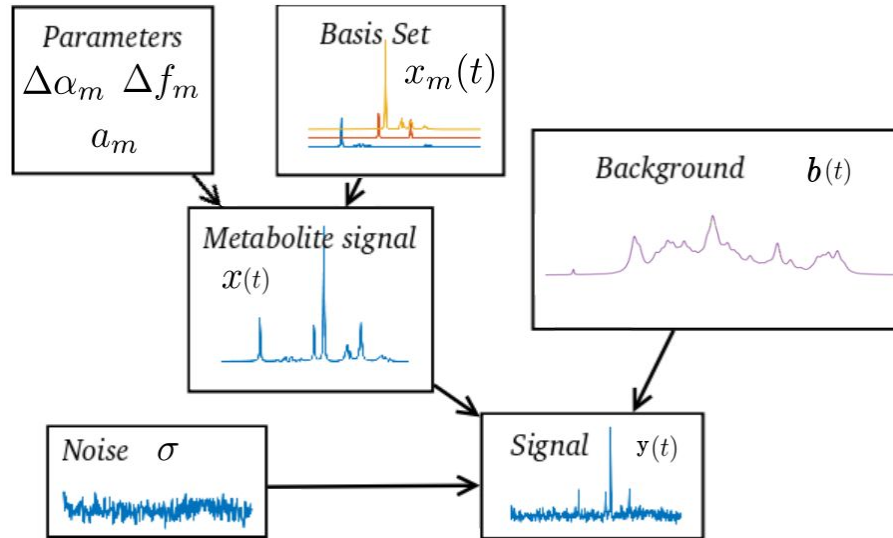
Solution : CARMIN !

(Common API for Research Medical Imaging Network)

github.com/CARMIN-org/CARMIN-API



Use case : CQuest



Credit : H.Ratiney

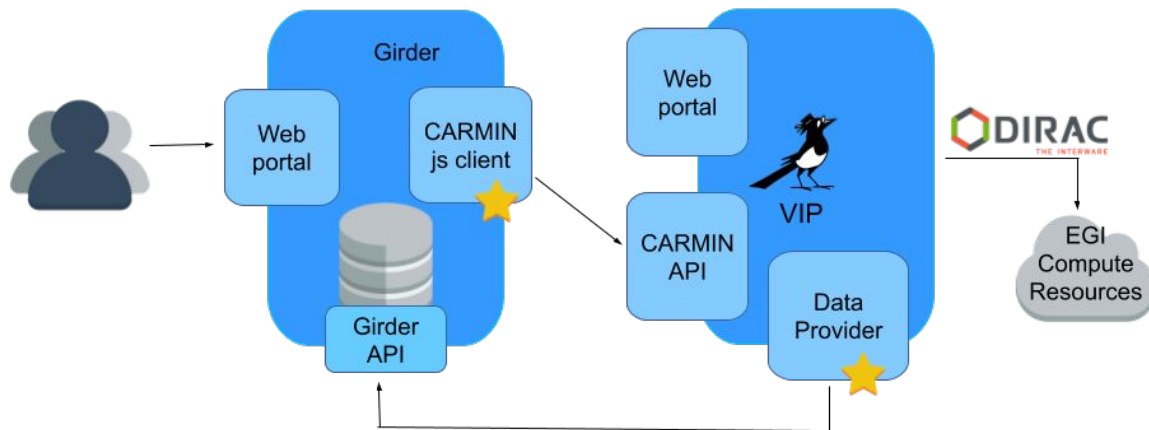
CQuest :

- Signal quantification for Magnetic Resonance Spectroscopy tool
- Great GUI with visualization

VIP integration :

- Python CARMIN client in CQuest
- Deports computation, allows batch
- Simplifies installation

Use case : VIP + Girder



Girder : medical database

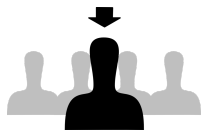
VIP integration into Girder :

- Javascript client
- Start execution on VIP from girder web portal

Girder integration into VIP :

- Allow to access directly Girder files (for inputs and outputs)
- Works with
 - Girder
 - CARMIN data platforms
 - iRods (soon)

Issue : I want to use VIP from my tool



I've developed a tool with great features (visualization)
I would like to do some processing on VIP directly from it



Solution : CARMIN !

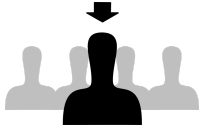
(Common API for Research Medical Imaging Network)

github.com/CARMIN-org/CARMIN-API

Others CARMIN advantages :

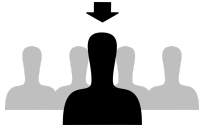
- Interoperability with other CARMIN platforms
- Existing clients in JS, python and java
- Easy client generation thanks to swagger

Issue : I want to share my own application



But I know it's complicated
I don't have a week to spare

Issue : I want to share my own application

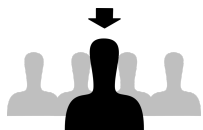


But I know it's complicated
I don't have a week to spare



Solution : Boutiques
github.com/boutiques

Issue : I want to share my own application

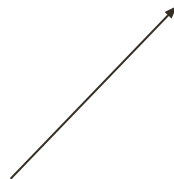


But I know it's complicated
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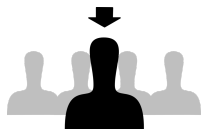
Solution : Boutiques
github.com/boutiques

Boutiques json file



```
{
  "name": "epilepsy-test",
  "tool-version": "1.0",
  "description": "Run Epilepsy test, using launcher script",
  "command-line": "launch-train.sh [INPUT] [OUTPUT]",
  "schema-version": "0.5",
  "container-image": {
    "type": "docker",
    "image": "feature-extraction"
  },
  "inputs": [
    {
      "id": "image",
      "name": "Input image",
      "type": "String",
      "description": "Image file to test",
      "value-key": "[INPUT]",
      "list": false,
      "optional": false,
      "default-value": ""
    }
  ],
  "output-files": [
    {
      "id": "result",
      "name": "Result image file",
      "description": "Result image file",
      "value-key": "[OUTPUT]",
      "path-template": "[INPUT].tar.gz"
    }
  ]
}
```

Issue : I want to share my own application



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Solution : Boutiques
github.com/boutiques

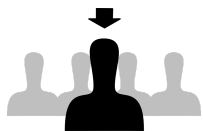
Boutiques json file

```
{
  "name": "epilepsy-test",
  "tool-version": "1.0",
  "description": "Run Epilepsy test, using launcher script",
  "command-line": "launch-train.sh [INPUT] [OUTPUT]",
  "schema-version": "0.5",
  "container-image": {
    "type": "docker",
    "image": "feature-extraction"
  },
  "inputs": [
    {
      "id": "image",
      "name": "Input image",
      "type": "String",
      "description": "Image file to test",
      "value-key": "[INPUT]",
      "list": false,
      "optional": false,
      "default-value": ""
    }
  ],
  "output-files": [
    {
      "id": "result",
      "name": "Result image file",
      "description": "Result image file",
      "value-key": "[OUTPUT]",
      "path-template": "[INPUT].tar.gz"
    }
  ]
}
```

Link to docker
image



Issue : I want to share my own application




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Solution : Boutiques
github.com/boutiques

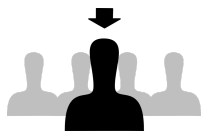
Boutiques json file

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{
  "name": "epilepsy-test",
  "tool-version": "1.0",
  "description": "Run Epilepsy test, using launcher script",
  "command-line": "launch-train.sh [INPUT] [OUTPUT]",
  "schema-version": "0.5",
  "container-image": {
    "type": "docker",
    "image": "feature-extraction"
  },
  "inputs": [
    {
      "id": "image",
      "name": "Input image",
      "type": "String",
      "description": "Image file to test",
      "value-key": "[INPUT]",
      "list": false,
      "optional": false,
      "default-value": ""
    }
  ],
  "output-files": [
    {
      "id": "result",
      "name": "Result image file",
      "description": "Result image file",
      "value-key": "[OUTPUT]",
      "path-template": "[INPUT].tar.gz"
    }
  ]
}
```

Link to docker image 

Inputs and outputs descriptions

Issue : I want to share my own application



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Solution : Boutiques
github.com/boutiques


Boutiques json file

```
{
  "name": "epilepsy-test",
  "tool-version": "1.0",
  "description": "Run Epilepsy test, using launcher script",
  "command-line": "launch-train.sh [INPUT] [OUTPUT]",
  "schema-version": "0.5",
  "container-image": {
    "type": "docker",
    "image": "feature-extraction"
  },
  "inputs": [
    {
      "id": "image",
      "name": "Input image",
      "type": "String",
      "description": "Image file to test",
      "value-key": "[INPUT]",
      "list": false,
      "optional": false,
      "default-value": ""
    }
  ],
  "output-files": [
    {
      "id": "result",
      "name": "Result image file",
      "description": "Result image file",
      "value-key": "[OUTPUT]",
      "path-template": "[INPUT].tar.gz"
    }
  ]
}
```

Command line

Link to docker image

Inputs and outputs descriptions



Issue : I want to share my own application

The screenshot displays the VIP v1.23 web interface with the user 'Sorina Camarasu (Administrator)'. The 'epilepsy-test' application is being configured. The 'General Information' section includes fields for 'Application Name' (epilepsy-test), 'Command Line' (/home/cloudadm/epilepsy_use_case/launch-test.sh [INPUT] [OUTPUT]), 'Docker Image', 'Docker Index', and 'Version'. The 'Application Inputs' section shows an 'image (*)' input. The 'Executable' section includes 'Application file location' (/vip/Home/applis), 'Select type of application' (standalone), 'location of additional descriptor(s)', checkboxes for 'Application must run on grid, and not locally' and 'Overwrite application version if it exists', and a 'Dirac tag' (diracTag:nvidiaGPU). A 'Create application' button is at the bottom left.

VIP v1.23 | Sorina Camarasu (Administrator)

Home | Executions | Boutiques Application Importer | epilepsy-test

General Information

Application Name
epilepsy-test

Command Line
/home/cloudadm/epilepsy_use_case/launch-test.sh [INPUT] [OUTPUT]

Docker Image

Docker Index

Version

Application Inputs

image (*)

Executable

Application file location
/vip/Home/applis

Select type of application: standalone

location of additional descriptor(s):

☐ Application must run on grid, and not locally

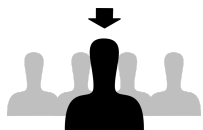
☒ Overwrite application version if it exists

Dirac tag: diracTag:nvidiaGPU

Create application

VIP automatic importer screenshot

Issue : I want to share my own application



But I know it's complicated
I don't have a week to spare



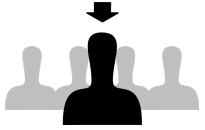
Solution : Boutiques
github.com/boutiques

Other Boutiques advantages :

- Many tools
- Simplified execution launch
- Built-in Zenodo publication

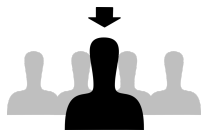
```
{
  "name": "epilepsy-test",
  "tool-version": "1.0",
  "description": "Run Epilepsy test, using launcher script",
  "command-line": "launch-train.sh [INPUT] [OUTPUT]",
  "schema-version": "0.5",
  "container-image": {
    "type": "docker",
    "image": "feature-extraction"
  },
  "inputs": [
    {
      "id": "image",
      "name": "Input image",
      "type": "String",
      "description": "Image file to test",
      "value-key": "[INPUT]",
      "list": false,
      "optional": false,
      "default-value": ""
    }
  ],
  "output-files": [
    {
      "id": "result",
      "name": "Result image file",
      "description": "Result image file",
      "value-key": "[OUTPUT]",
      "path-template": "[INPUT].tar.gz"
    }
  ]
}
```

Issue : My application needs a GPU



Is it possible to exploit GPUs with VIP ?

Issue : My application needs a GPU



Is it possible to exploit GPUs with VIP ?



Solution : Dirac

Successful test on VIP :

- Application deployment on an EGI VM with GPU (with docker)
- VM declared in Dirac through SSH
- Use Dirac tag to map VIP jobs on that VM

Conclusions

- Industrialize GPU usage in VIP thanks to Dirac

Conclusions

- Industrialize GPU usage in VIP thanks to Dirac
- New usages allowed thanks to CARMIN and Boutiques

Conclusions

- Industrialize GPU usage in VIP thanks to Dirac
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- Collaborative projects : mutualization and interoperability

Conclusions

- Industrialize GPU usage in VIP thanks to Dirac
- New usages allowed thanks to CARMIN and Boutiques
- Collaborative projects : mutualization and interoperability
- Keep fostering VIP integration into software

Thank you for you attention!
Questions?

— axel.bonnet@creatis.insa-lyon.fr —

Use case : VIP + Girder

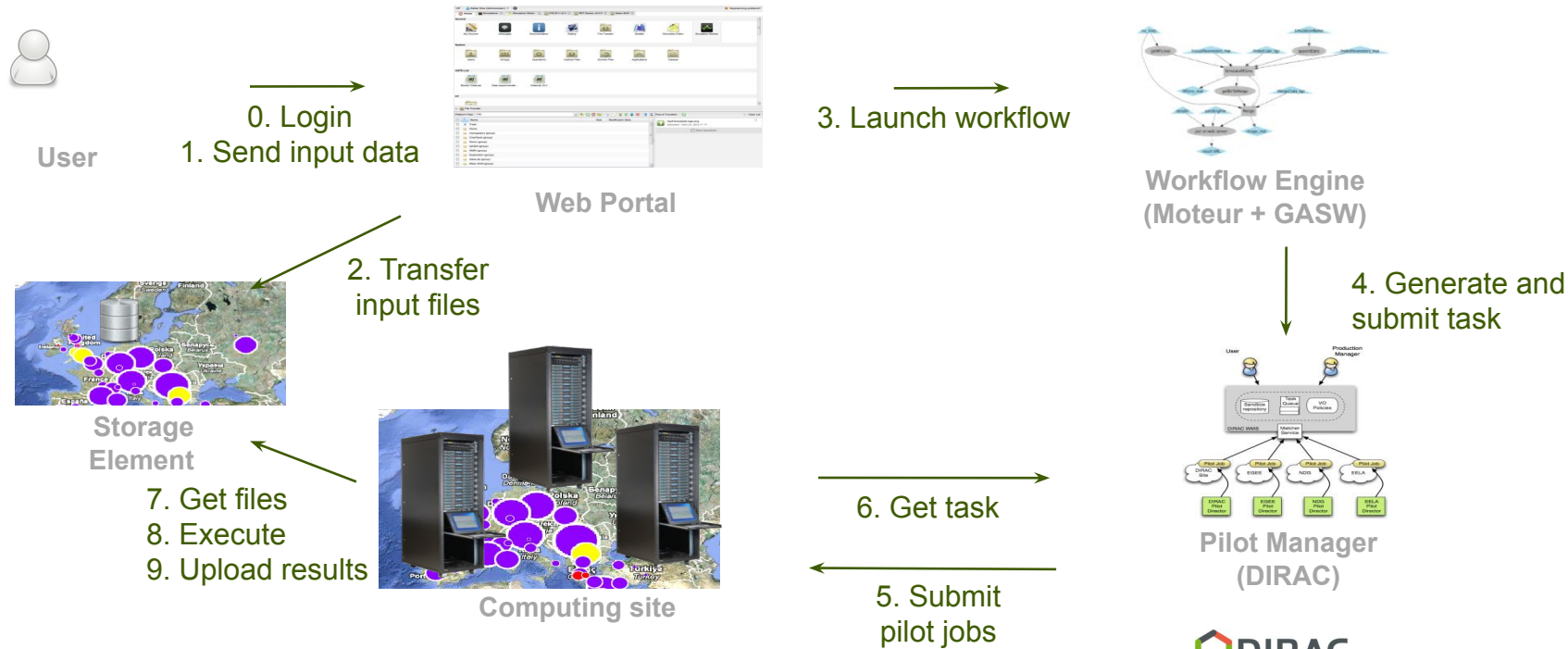
Girder Quick search... lucast

CREATIS Actions

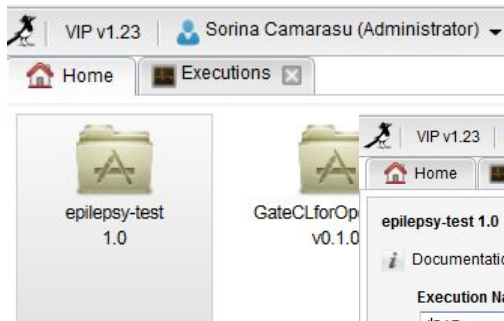
Folder 1

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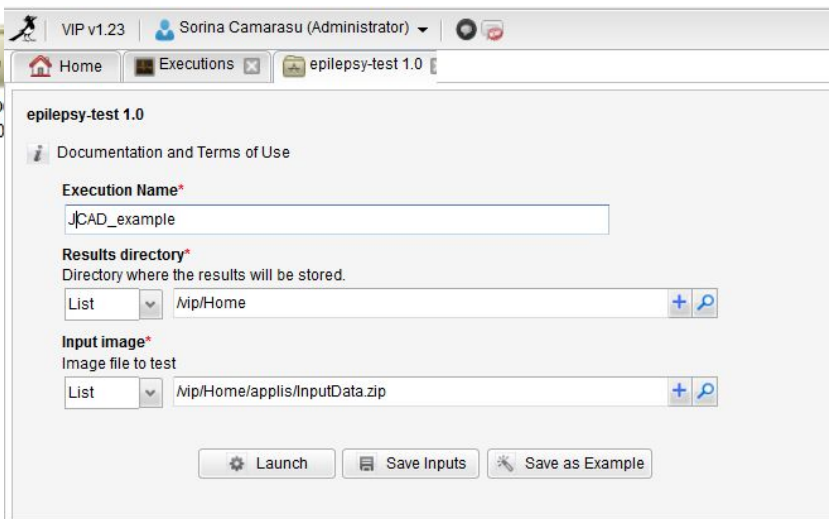
How does it work?



Application execution on VIP



What users see (VIP)



What users DON'T see (Dirac)

| Job Monitor | | | | | | |
|-------------|-------------------|---------------------------|-------------------|-------------------|---------------------------------|--|
| Selectors | | Items per page: 25 Page 1 | | | | |
| Site: | TEST.biomedSSH.fr | | | | | |
| Status: | | | | | | |
| JobId | Status | MinorStatus | ApplicationStatus | Site | JobName | |
| 85535994 | Done | Execution Complete | Unknown | TEST.biomedSSH.fr | epilepsy-test - workflow-bQyCsu | |
| 85482012 | Done | Execution Complete | Unknown | TEST.biomedSSH.fr | epilepsy-test - workflow-KSEM6w | |

GateLab 0.7.0

 Documentation and Terms of Use

Execution Name*

CPUestimation*

GateInput*

GateRelease*

NumberOfParticles*

ParallelizationType*

Please refer to the following publication:

S. Camarasu-Pop, T. Glatard, R. Ferreira da Silva, P. Gueth, D. Sarrut, and H. Benoit-Cattin, "[Monte-Carlo Simulation on Heterogeneous Distributed Systems: a Computing Framework with Parallel Merging and Checkpointing Strategies](#)", Future Generation Computer Systems, vol. 29, no. 3, pp. 728--738, 03/2013



Launch




Save Inputs

[Home](#)

[Executions](#) X

[OpenDose_GateLab_138_gamma_0.07000_100000000](#) X

 **GateLab** launched on **Thu May 02 09:13:58 GMT+200 2019** (workflow-UdCrDU)


Simulation Type: **Static** - Gate Release: **gate_release_8.1.p01_52f1dd0**


Simulation Progress

100%

Simulation completed! (100000000 out of 100000000 particles)

Stop and Merge

**Download Input File**
/vip/Users/gilles_mathieu/OpenDose/input
/Input_GateLab_AF_2019-04-02.zip

**Download Output File**
/vip/Users/gilles_mathieu/OpenDose/outputs
/2019-05-02_091444/output-merged.tar.gz

Application publishing in VIP with Boutiques

- Share your tools in a packaged and fully described fashion
- Boutiques publishes descriptors to Zenodo (<https://zenodo.org>)

The screenshot displays the Zenodo website interface for the publication of 'GateCLforOpenDose'. At the top, the application name 'GateCLforOpenDose' is shown with 'Add Version' and 'Refresh' buttons. Below this is a table listing versions:

| | Visible | Version | LFN |
|---|-------------------------------------|---------|---|
| 1 | <input checked="" type="checkbox"/> | v0.1.0 | /grid/biomed/creatis/vip/data/users/sorina_camara |
| 2 | <input checked="" type="checkbox"/> | v0.2.0 | /grid/biomed/creatis/vip/data/groups/OpenDose/Gi |

The main content area shows the Zenodo logo, a search bar, and navigation links for 'Upload' and 'Communities'. The publication details for 'GateCLforOpenDose' by Gilles Mathieu are displayed, including the date 'February 19, 2019' and buttons for 'Software' and 'Open Access'. The preview section shows a JSON descriptor for the GATE command with input parameters. The right sidebar contains statistics (15 views, 8 downloads), the OpenAIRE logo, and publication metadata including the DOI '10.5281/zenodo.2573071', keywords 'Boutiques', 'schema-version:0.5', and 'application:GATE', and the license 'Creative Commons Attribution 4.0 International'. The 'Add/Edit Version' section shows the application name, version 'v0.2.0', LFNs, and a 'Visible' checkbox. The 'Publish Version' section shows the status 'Not published' and a 'Publish' button.

Application: GateCLforOpenDose

Visible Version LFN

1 ☒ v0.1.0 /grid/biomed/creatis/vip/data/users/sorina_camara

2 ☒ v0.2.0 /grid/biomed/creatis/vip/data/groups/OpenDose/Gi

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February 19, 2019 Software Open Access

GateCLforOpenDose

Gilles Mathieu, using GATE application

Descriptor for the GATE command with input parameters, used for import in VIP via Boutiques

Preview

```
{
  "author": "Gilles Mathieu, using GATE application",
  "command-line": "unzip [INDATA]; source [GATERELEASEPATH]/env.sh [GATERELEASEPATH];",
  "description": "Descriptor for the GATE command with input parameters, used for import in VIP via Boutiques",
  "error-codes": {
    "code": 1,
    "description": "Crashed"
  },
  "inputs": [
    {
      "command-line-flag": "",
      "command-line-flag-separator": "",
      "id": "gatereleasepath",
      "name": "Path to the Gate Release used by the application",
      "optional": false,
      "type": "String",
      "value-key": "[GATERELEASEPATH]"
    }
  ],
  "id": "indata",
  "name": "LFN of the archive containing all input data",
  "value-key": "[INDATA]"
}
```

15 views 8 downloads See more details...

Indexed in OpenAIRE

Publication date: February 19, 2019

DOI: 10.5281/zenodo.2573071

Keyword(s): Boutiques schema-version:0.5 application:GATE domain:nuclear medicine

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Add/Edit Version

Application: GateCLforOpenDose

Version v0.2.0

Gwendia LFN /grid/biomed/creatis/vip/data/groups/OpenDose/GateCLforOpenDose/workflow/GateCLforC

JSON LFN /grid/biomed/creatis/vip/data/groups/OpenDose/GateCLforOpenDose/json/GateCLforOpen

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