

Experiencias con Python y CUDA en Computación de Altas Prestaciones

Sergio Armas Lionel Mena Alejandro Samarín
Vicente Blanco¹ Alberto Morales Francisco Almeida

¹Departamento de Estadística, I.O. y Computación
Universidad de La Laguna

XXII Jornadas de Paralelismo
7, 8 y 9 de septiembre 2011
La Laguna (Tenerife)

Índice

- 1 Introducción
- 2 Computación con Python y CUDA
 - PyCUDA
 - PyCUBLAS
- 3 Detección de movimiento
 - Algoritmo
 - Resultados
- 4 Conclusiones

Make Titles Informative. Use Uppercase Letters.

Subtitles are optional.

- Use `itemize` a lot.
- Use very short sentences or short phrases.

Make Titles Informative.

You can create overlays. . .

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays. . .

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays. . .

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays. . .

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays. . .

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

You can create overlays. . .

- using the `pause` command:
 - First item.
 - Second item.
- using overlay specifications:
 - First item.
 - Second item.
- using the general `uncover` command:
 - First item.
 - Second item.

Make Titles Informative.

Make Titles Informative.

Índice

- 1 Introducción
- 2 Computación con Python y CUDA
 - PyCUDA
 - PyCUBLAS
- 3 Detección de movimiento
 - Algoritmo
 - Resultados
- 4 Conclusiones

Make Titles Informative.

Índice

- 1 Introducción
- 2 Computación con Python y CUDA
 - PyCUDA
 - PyCUBLAS
- 3 Detección de movimiento
 - Algoritmo
 - Resultados
- 4 Conclusiones

Índice

- 1 Introducción
- 2 Computación con Python y CUDA
 - PyCUDA
 - PyCUBLAS
- 3 Detección de movimiento
 - **Algoritmo**
 - Resultados
- 4 Conclusiones

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Índice

- 1 Introducción
- 2 Computación con Python y CUDA
 - PyCUDA
 - PyCUBLAS
- 3 Detección de movimiento
 - Algoritmo
 - **Resultados**
- 4 Conclusiones

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Make Titles Informative.

Summary

- The **first main message** of your talk in one or two lines.
- The **second main message** of your talk in one or two lines.
- Perhaps a **third message**, but not more than that.
- Outlook
 - Something you haven't solved.
 - Something else you haven't solved.

For Further Reading I



A. Author.

Handbook of Everything.

Some Press, 1990.



Andreas Klöckner *et ál.*

PyCUDA: GPU Run-Time Code Generation for
High-Performance Computing

[arXiv:0911.3456v2](#)