



# Presentando a Nabuco

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Desempeño



Universidad  
Nacional  
de Córdoba

# ¿Que es Nabuco?

Machine Learning Superserver

Industria

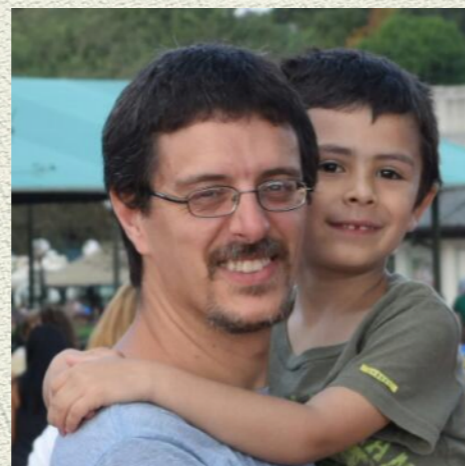
Academia



Cuidar un Ecosistema Único que tenemos en  
Córdoba

# Superserver Nabucodonosor

- 2 Xeon 2680v2 + 64 GiB RAM.
- 3 GTX 1080 Ti.
- 3 SSD 1 TiB, en RAID0.
- 30 TFLOPS single precision.
- Todo gracias a Alejandro y Ezequiel del Área de Electrónica de FaMAF.



# Gracias a:

CONICET



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I A T E



Hernán Amiune

apex  
AMERICA • BPO



Córdoba  
Technology  
Cluster



**BITLOGIC.io**

Se vienen:



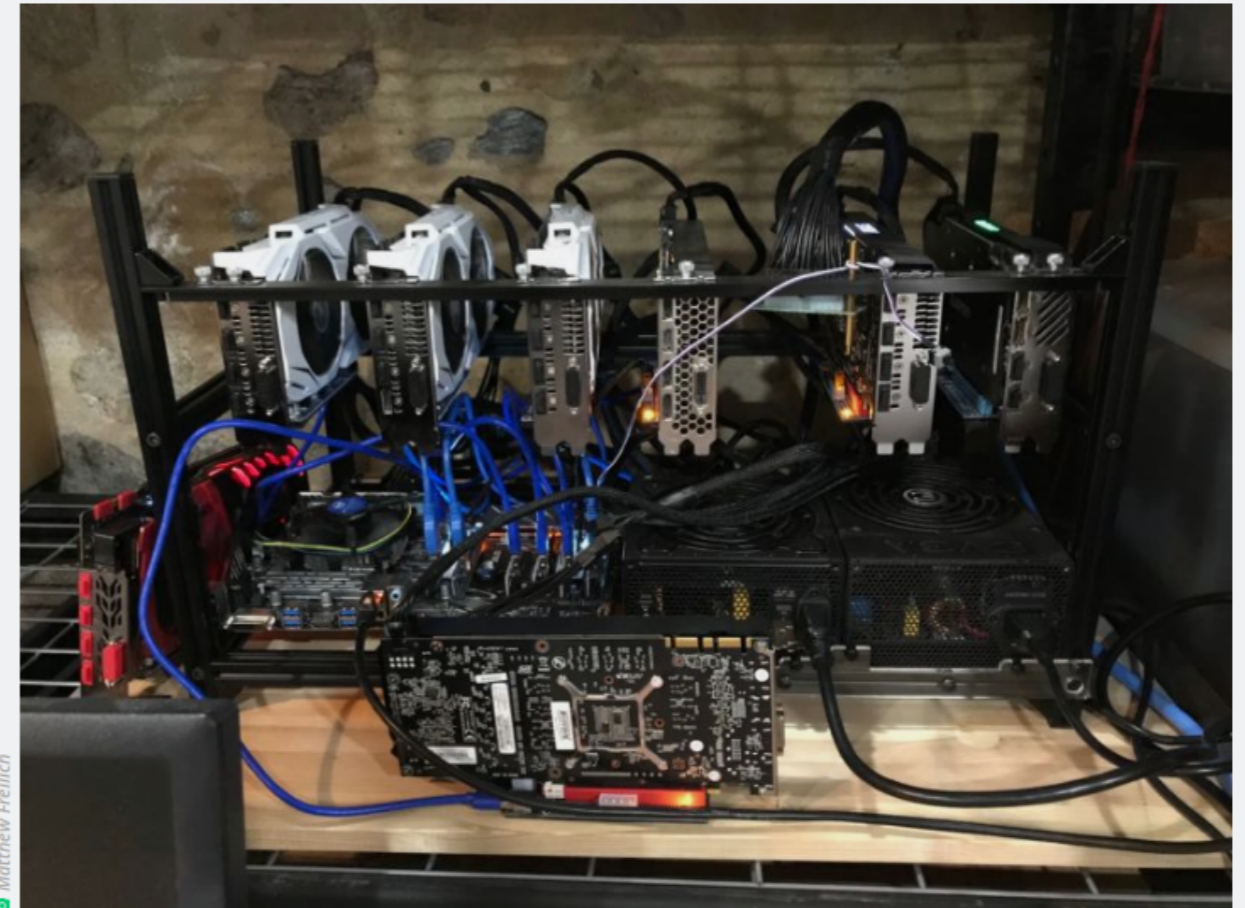
# Problemitas:

*Esto no es Nabuco, ni queremos que lo sea.*

## Here's why you can't buy a high-end graphics card at Best Buy

"Cryptocurrency can't crash soon enough," one gamer fumes.

TIMOTHY B. LEE - 1/18/2018, 5:35 PM



Matthew Freilich

[Enlarge](#) / Philadelphia miner Matthew Freilich shared this picture of his mining rig, which contains eight Nvidia GTX 1070 graphics cards.

# Problemitas:

## Cryptocurrency miners are renting Boeing 747s to ship graphics cards

By Paul Lilly July 28, 2017

Now that's just 'plane' crazy.

[f](#) [t](#) [r](#) [e](#) | [c](#) COMMENTS



Have you ever had a moment where you didn't know whether to laugh or cry? That's the situation playing out in the graphics card market because of the cryptocurrency mining boom, a topic we've covered extensively in recent months. But just when we thought there was nothing left to report on the matter, it's come out that some of the most active Ethereum miners are renting Boeing 747 airplanes to ship orders of graphics cards. Yes, seriously.



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# Problemitas:

También algunos problemas de licencias y técnicos.



Funciona: (Consumo pico: 1200W).

```
mint@mint ~/hashcat-4.1.0
File Edit View Search Terminal Help
Every 1.0s: nvidia-smi
Fri Feb 23 17:14:39 2018
-----
| NVIDIA-SMI 384.111 | Driver Version: 384.111 |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| GPU  Name  Persistence-M | Bus-Id  Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap |      | Memory-Usage | GPU-Util  Compute M. |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 0  GeForce GTX 108...  Off | 00000000:02:00.0  Off |           | 97%  N/A |
| 49%  73C  P2    260W / 280W |      | 1829MiB / 11172MiB |           | Default |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1  GeForce GTX 108...  Off | 00000000:03:00.0  Off |           | 96%  N/A |
| 25%  63C  P2    255W / 280W |      | 1829MiB / 11172MiB |           | Default |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2  GeForce GTX 108...  Off | 00000000:84:00.0  Off |           | 96%  N/A |
| 34%  68C  P2    263W / 280W |      | 1829MiB / 11172MiB |           | Default |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Processes: |
| GPU  PID  Type  Process name  GPU Memory |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 0  13274  C    ./hashcat64.bin  1819MiB |
| 1  13274  C    ./hashcat64.bin  1819MiB |
| 2  13274  C    ./hashcat64.bin  1819MiB |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

# Usuarios:



ASC  
ASCENTIO

# Cierre:

- ¡Pedí tu cuenta! `nicolasw@famaf.unc.edu.ar`
- Ya estamos pensando en armar el 2do y conectarlas por IB.
- Su página: <http://ccad.unc.edu.ar/equipamiento/computadora-nabucodonosor/>
- Video realizado por la UNC Comunica.  
<https://www.youtube.com/watch?v=3YadgpjAak0&t=400>

# Preguntas Incómodas:

- ¿Porque no compran una DGX-1 o una X10DRG-O?
- ¿Por qué no aquilan una p3.16xlarge en Amazon EC2?
- ¿Por qué no compran un carrito de minado?
- ¿Por qué desperdician nodos de Mendieta en esto?
- ¿Por qué no minan criptomonedas?

Gracias!