



UbiHPC

The ARCHADE

Powering autonomous multi and many-robot systems



What is it?

- Supercomputing
- Multi and many robot
- Hierarchical Autonomy
- Scalability
- Heterogeneity
- Hardware independent
- Custom software

The ARCHADE

Transforms a set of robots (e.g. drones, rovers, and more), computers, sensors and people in a autonomous hierarchical supercomputer that can be used in precision agriculture, construction, insurance claims, oil & gas, real state, e-sports and practically every possible field.

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The ARCHADE



Supercomputing

Speed up on-board complex tasks such as localization and mapping, visual navigation and do so cooperatively among all your robots and computers.



Hierarchical autonomy

You don't need pilots or users controlling the system but if you want, you can regain control. Humans hold a higher hierarchy than machines, always.



Heterogeneity

Use cooperative teams made of drones, rovers, humanoids, sensors, computers and more, including any quantity of people too.

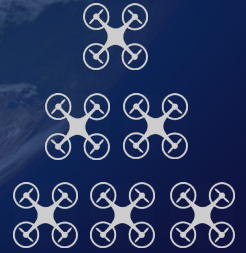
Multi and many robot

Use one, multi or many robots autonomously. You can control them with a single command and they will do the job you want them to do.



Scalability

Design a mission with The ARCHADE API and execute it in any quantity of robots you want. The mission will run in one or N robots transparently.



Hardware independent

The ARCHADE runs on any computer (companion or desktop) installed with a Debian-based OS, e.g. Raspbian, Ubuntu, Kali and more.



Custom software

Easily Integrate your software with The ARCHADE services or contact us to create your mission software.

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