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Evidence (short) company description ...and a bit of roadmap!

Paolo Gai, pj@evidence.eu.com IWES Workshop Roma, 7 September 2017

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The company

Spin Retis Lab S. Anna

21 people, average 38 yrs 30% PhD degree

Located in Pisa



Working on a wide range of embedded applications and research topics



AUTOSAR Development member since May 2017

Our Mission: We design and develop great software for small electronic devices



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products and services

RTOS, Firmware, Embedded Linux

- AUTOSAR, OSEK/VDX, device drivers

 ERIKA
 ENTERPRISE
- Embedded Linux: 12 Yrs experience BSPs, GCC, U-Boot, Kernel drivers
- Initial developers of the SCHED_DEADLINE patch
- Hypervisors, Android,
 Ubuntu Core, QEMU and emulators





Application Development







Model-based design

Matlab/Simulink/Stateflow



 National Instruments LabView



LabVIEW

- E4Coder toolset for code generation
- UML/SYSML/Ecore/ Eclipse/Acceleo



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(some) customers

OSEK, microcontrollers, schedulability analysis, code generation



















Indesit Company







Linux, SW devel.





























Listed as 3rd party



















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ERIKA Enterprise (v2 and v3)





http://erika.tuxfamily.org

http://www.erika-enterprise.com

- ERIKA Enterprise is an RTOS OSEK/VDX certified
- ERIKA Enterprise implements the AUTOSAR OS API
- open-source license and double licensing options allowing static linking of closed src code
- Used by various industries and research projects









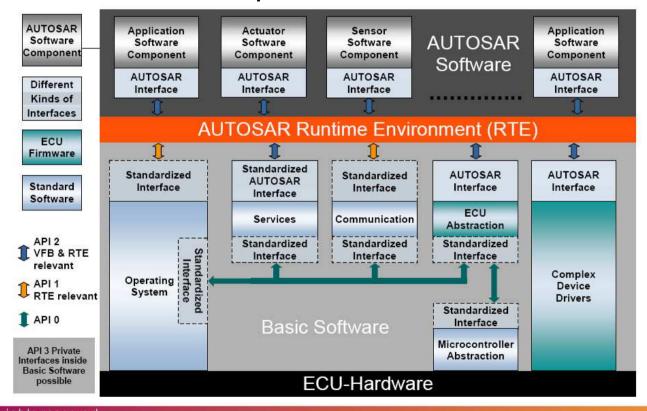
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Building an AUTOSAR stack...

We want to fill the gap on Automotive SW providing a fully open-source (mostly Italian!) AUTOSAR system, ISO26262 compliant!

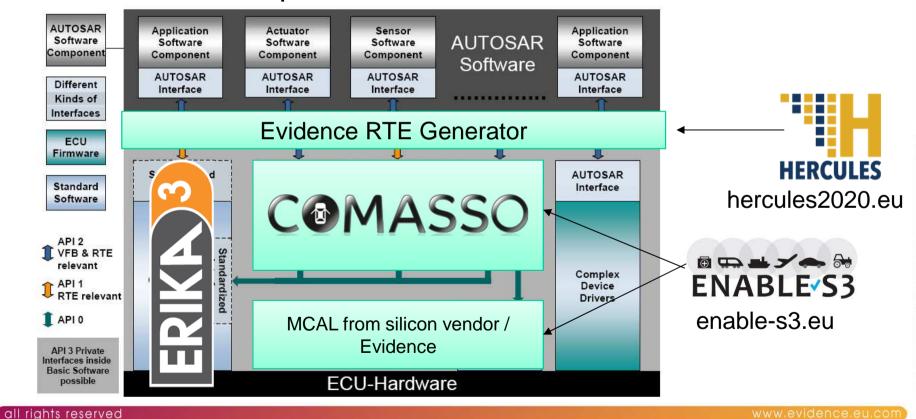


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...integrated with Linux and Hypervisors

- We work on the Linux Kernel internals
 - Scheduler internals
 - GRUB Scheduler Patch just accepted mainline!
 - Power management
 - Network subsystem
 - Custom drivers
- We work with latest JailHouse, Xen, NVidia Vibrante

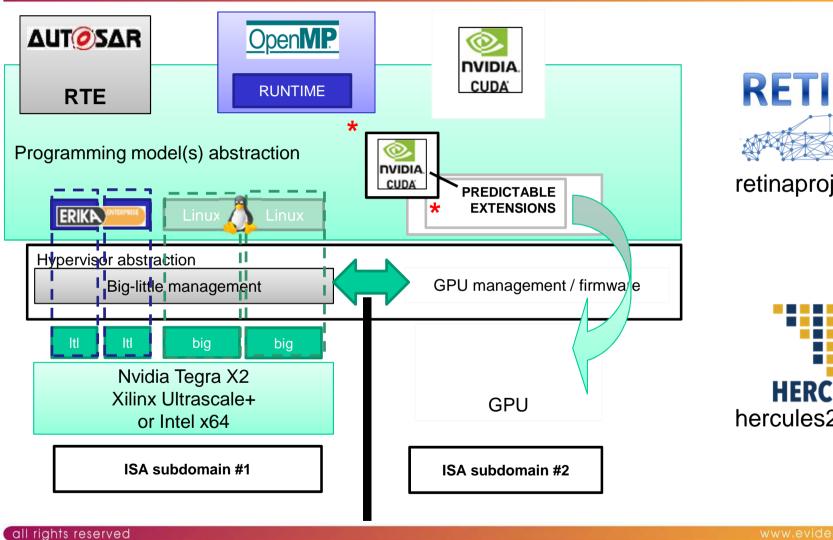
To merge ERIKA3 and Linux in a single real-time platform for automotive and industrial usage

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Mixing Linux, Hypervisors and AUTOSAR









AXIOM – first SW stack available now!

Real board based on Zing Ultrascale+ or QEMU Emulation

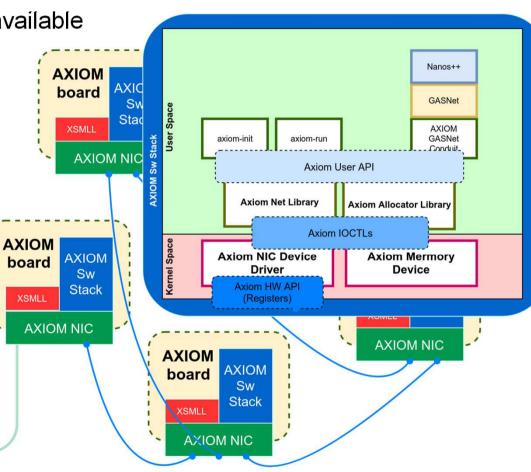
AXIOM-Link software specs available

- Device drivers
- Memory allocator
- Utility apps
- GASNet Spawner
- OmpSs@Cluster
- Currently reaching >8 Gbit/sec RDMA!



SW stack Available today!

http://www.axiom-project.eu/



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...working with Evidence

```
char msg[]= {78, 111, 119, 32, 72, 105, 114, 105, 110, 103, 0};
```

- Master/PhD, Engineering/Computer Science
- C/C++/Qt/Java (Eclipse Ecore/Android)/Control engineers/Python
- Passion, Passion, Passion!
 - Passion for embedded systems
 - Passion for Linux internals
 - Passion for software architectures
- We are looking for good programmers, geeks allowed!

EVIDENCE°

...what we offer

- A nice place to work (in Tuscany!)
- (Typically) in Pisa
- With great (and smart too!) colleagues
- In a (really!) collaborative environment
- (Depending on your tasks and attitudes) possibility to travel for EU and Italian research projects
- A (probably too much?) dynamic environment... You'll (almost) never do the same thing twice

Please send your CVs to info@evidence.eu.com

EVIDENCE EMBEDDING TECHNOLOGY

Contacts



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