

URBI Server for Aibo, Webots & liburbi are freely available for non commercial use at:

www.urbiforge.com

Next steps:

- Support more robots and develop partnership/contracts with device manufacturers: Currently: Aibo, HRP-2, Webots5 (robot simulator, Cyberbotics), Aldebaran Robotics Next: Sony, ActivMedia, Philips iCat?
- Increase the number of languages for the liburbi.
 Currently: C++, Java, Matlab, C++/OPENR.
 Next: Python, C, perl
- Continue to **add important features** in the kernel: client functions, debugging facilities, multi tagging, kernel 2 with multicore processors support and real-time scheduling.
- Develop **URBI plugins** to enhance the language and stimulate the community (GPL)
- Develop useful associated software & tutorials: URBI Lab, URBI center, URBI Dev

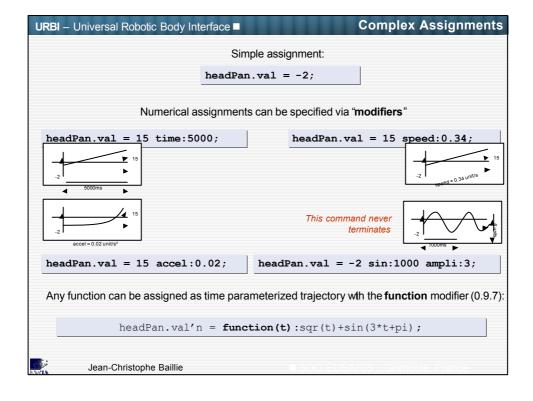


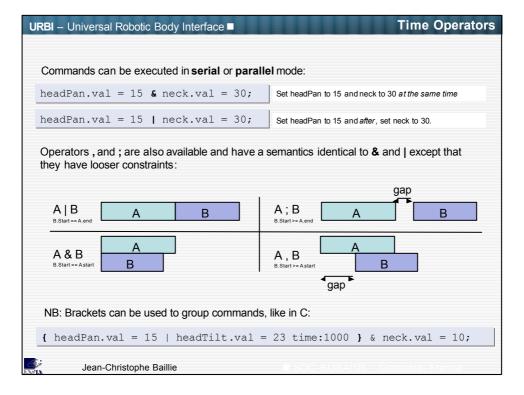
Jean-Christophe Baillie

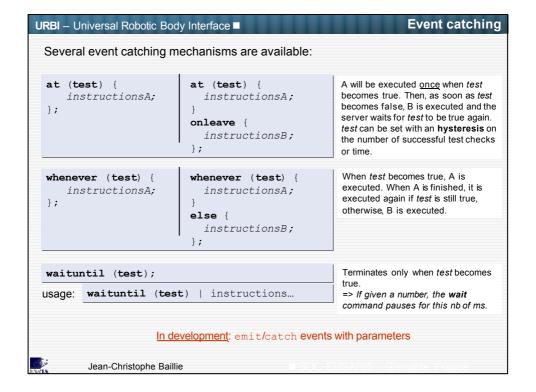
URBI – Universal Rob	ootic Body Interface				Demo
Short demo video:					
Jean-Christo	phe Baillie	LESO	C-EUSAl'05 :: Gre	enoble, France	

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at (talk.finished == true)
echo « Thank you for » +
« your attention »;

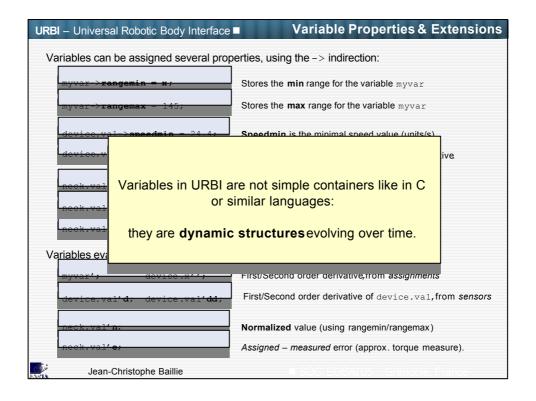
Jean-Christophe Baillie SOC EUSAIDS: Grenoble, France
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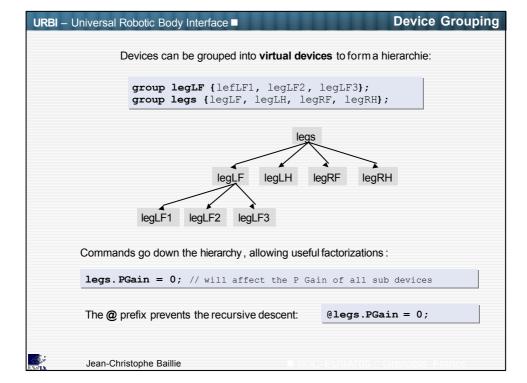






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Advanced Tagging
URBI – Universal Robotic Body Interface ■
                            stop / block / freeze
     mytag: { commands...};
     stop mytag; // stops the commands
     block mytag; // kills any new command with tag "mytag«
     unblock mytag;
     freeze mytag; // freeze any running or new command
     unfreeze mytag;
                            Flags: tag modifiers
     +stop (x==1): { commands...}; // stops on condition
     +freeze (headSensor.val > 0): { ... }; // freeze on cond.
     +timeout (10000) : command; // stops after 10s
     +error: command; // reports errors
     +begin: command; // reports beginning of the command
     +end: command; // reports ending of the command
        Jean-Christophe Baillie
```





Liburbi: quick review URBI - Universal Robotic Body Interface ■ Telnet is of course too limited => liburbi for C++ programming. Exists also for **JAVA**, **Matlab** and **OPENR** (soon: Python, C) The URBI library (liburbi) give simple methods to send commands to and receive messages from the URBI server. C++ example: UClient * client = new UClient("myrobot.ensta.fr"); client->send(" headPan.val = %d", x); client->syncGetDevice("neck", &neckVal); // exists also for binary synchronous client->setCallback(&receiveMyImage,"imgtag"); client->send("loop imgtag:camera.val;"); UCallbackAction receiveMyImage(const Umessage &msg) /* handles the image contained in Umessage */ Jean-Christophe Baillie

