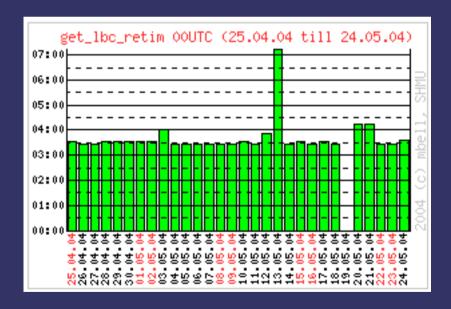
Documentation and monitoring system of operational applications at SHMI

/\artin Bellus, SHMI (email: bellus@shmu.sk)

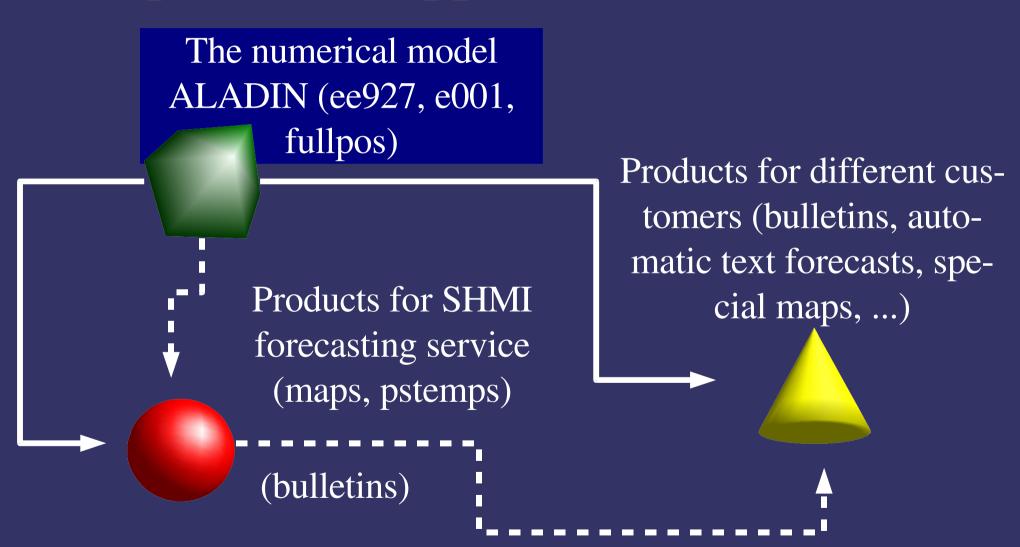


run_app ® 2003-2004 © J.Masek & M.Bellus

Table of contents

- Operational applications at SHMI (general scheme)
- Operational suite before and now (time evolution)
- Perl "run_app" operational system (the main structure)
- Online documentation and monitoring (the idea)
- ✓ The main features of "run_app" system
- Offline presentation of D&M system (via web interface)

Operational applications at SHMI



Operational suite before and now (1/2)

before 2002

individual shell scripts and applications spreaded among different users (uncomfortable, very difficult to maintain, almost impossible to monitor)

► 1st January 2003

end of common LACE operational production => cooperation with ZAMG (we were forced to build small "oper" suite on SGI in Vienna to produce the Prague's products) => the first prototype of our suite based on perl scripts

Operational suite before and now (2/2)

the same time

building of "run_app" perl system on DEC

► 1st May 2004

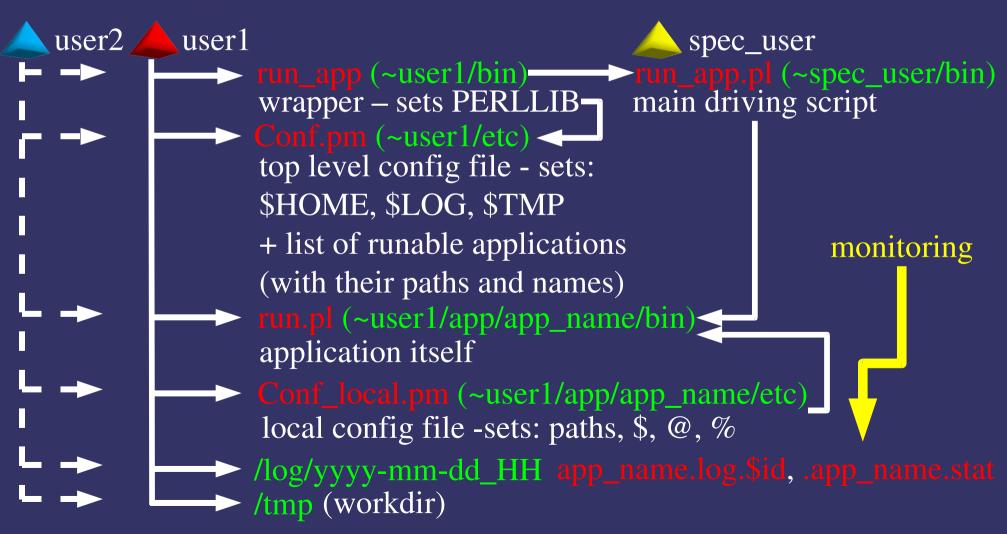
preoperational run of new oparational suite on IBM p690 at SHMI (the most advanced version of "run_app" perl script system) containing: ee927, init, e001 (~LACE sized domain with 9km hres.), fullpos to produce operational set of gribs (~2500), RODOS files, ASCS and psTEMPs

► 1st July 2004

start of the operational suite on IBM p690 and gradual transition of the other applications from DEC to IBM

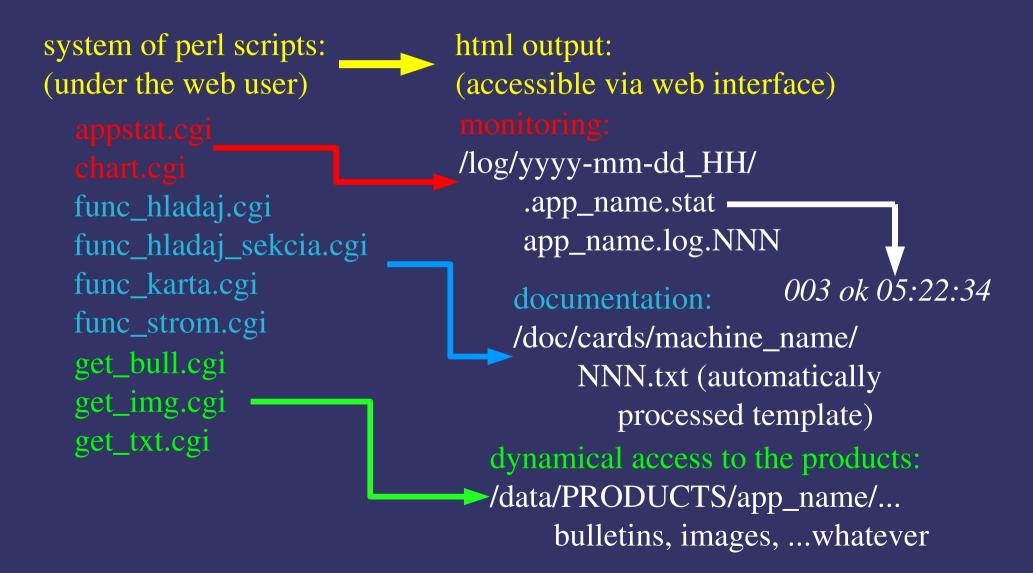
Perl "run_app" operational system

user1\$ run_app <app_name> <dd-mm-yyyy_HH> [<arg1> [<arg2> ...]]



14th Aladin-Workshop Innsbruck 1 - 4 June 2004

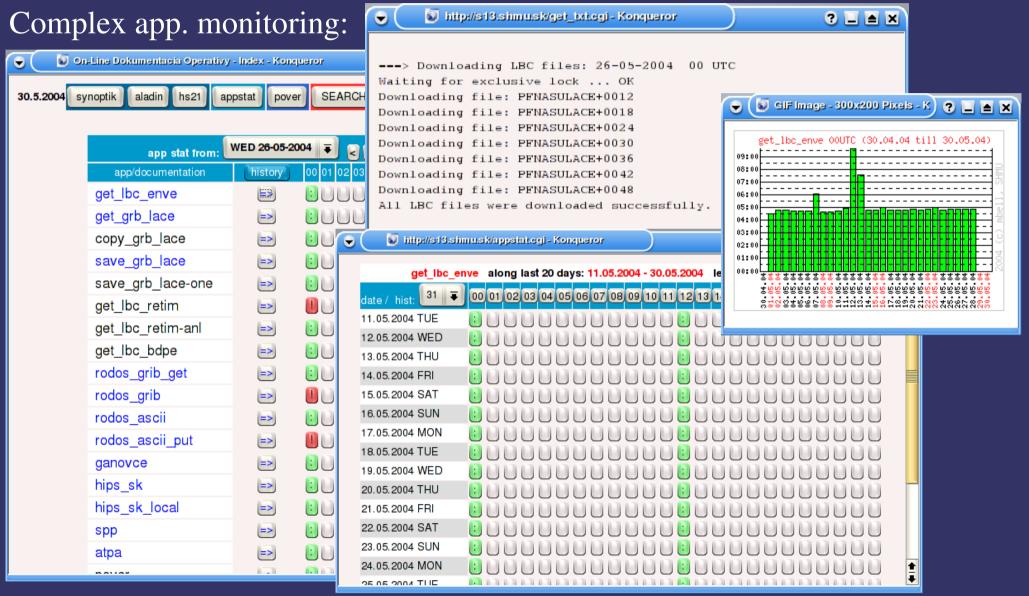
Online documentation and monitoring (1/3)



Online documentation and monitoring (2/3)

web interface (main screen – main functions): monitoring button On-Line Dokumentacka Operativy ndex - Konqueror ? _ ≜ × **FULLTEXT** HELP < > SEARCH 30.5.2004 synoptik aladin hs21 appstat pover different servers THU 27-05-2004 app stat from app/documentation get lbc enve searching engine get grb lace copy grb lace range/hour save grb lace save grb lace-one monitored get_lbc_retim get_lbc_retim-anl date get lbc bdpe rodos grib get documentation rodos grib => rodos ascii => card for app. rodos ascii put ganovce application hips sk history hips sk local spp application status atpa

Online documentation and monitoring (3/3)



The main features of "run_app" system

- Modularity (it is very easy to expand the system and to add new applications)
- portability (perl scripts and modules independent on platform)
- easy modifications through config. files
- unified system of running, logging and monitoring of the applications (everything is managed by the top level driving script)
- using environmental variables for communication between the scripts at the different levels
- developed by our nwp group (full control over the system, modifications according to our needs)

Offline presentation of D&M system

...here comes the offline presentation, don't go away!