NWP utility inventory at HIRLAM and ALADIN communities
Questionnaire

Please fill in this questionnaire before the 16th of March 2007 for every application and return it in paper or in an electronic form to:

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NAME of APPLICATION: *obsmon*

STATUS:

LATEST VERSION: ☐   DATE: ☐

☐ PLANNED
☐ UNDER DEVELOPMENT
☐ UNDER DEVELOPMENT BUT STABLE
☐ FINISHED

If under development or planned, is there a need for help for further development from the community

☐ NO   ☐ YES Please specify in which form and to what extend)

ACCES SITE

CONTACT PERSON FOR FURTHER INFORMATION:

ADDRESS: *Hungarian Meteorological Service, Budapest, Kitaibel P. U. 1., H-1024*
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Email: *kertesz.s@met.hu*
LIST OF CONTRIBUTORS: *Sándor Kertész*
HELP NEEDED: YES ☐ NO ☐

DESCRIPTION:

The main purpose of the application is to ensure a comprehensive observation monitoring system for data assimilation. This system uses ASCII dumps ODB as input (this dumping process is not the part of the application). These files are conververted into netCDF and stored in a file system serving as a data base. The system computes obs-guess and obs-an stats both for a certain analyis time and for periods. The results are visualized by the GMT package in various ways: maps, profiles, time-series. An interactive web based visualization was also developed in PHP. Batch mode usage is also possible. The system has been used operationally at HMS since summer 2007.

PURPOSE OF THE APPLICATION:

☐ CODE MAINTENANCE
☐ VISUALIZATION
☐ VERIFICATION
☐ POST-PROCESSING
☐ AUTOMATIC FORECAST PRODUCTION
☐ DATA HANDLING
☐ OTHER (PLEASE SPECIFY)
  Observation monitoring for data assimilation

TARGET USER

☐ RESEARCHERS
☐ FORECASTERS
☐ CODE DEVELOPERS AND MAINTAINERS
☐ OPERATIONAL SUITE DEVELOPERS & MAINTAINERS
☐ OTHER END USERS OF THE ALADIN MODEL (PLEASE SPECIFY)

☐ OTHER (PLEASE SPECIFY)

SOFTWARE

3d PARTY SOFTWARE USED IN THE APPLICATION:

☐ PUBLIC DOMAIN
☐ INTERNALLY DEVELOPED
☐ COMMERCIAL (PLEASE SPECIFY WHICH)

AVAILABILITY OF APPLICATION:

☐ FREELY AVAILABLE
☐ DELIVERABLE UNDER AGREEMENT
☐ DELIVERABLE UNDER LICENCE
☐ UNDECIDED

PROGRAMMING LANGAGE USED   NAME   .   VERSION

☐ FORTRAN 77

- ☐ FORTRAN 90
- ☐ C/C++ gcc 3 or 4
- ☐ SCRPTING LANGAGE (sh, ksh, Perl, Tc/Tk, … Please specify which)
    bash

- ☐ OTHER (PLEASE SPECIFY)
    php

COMPLXITY OF THE APPLICATION:
- ☐ VERY SIMPLE
- ☐ SIMPLE
- ☐ FAIRLY COMPLEX
- ☐ COMPLEX

DOCUMENTATION STATUS:
- ☐ NONE
- ☐ CURRENTLY ONLY AVAILABLE IN NATIONAL LANGAGE
- ☐ AVAILABLE IN ENGLISH
- ☐ UNDER DEVELOPMENT

SOURCE CODE MANAGEMENT TOOL:
- ☐ CVS   ☐ SUBV   ERSION   ☐ NONE   ☐ CLEARCASE

HARDWARE

TYPE OF COMPUTER NEEDED: MODEL

- ☐ PC   ☐ 64 bits ☐ 32 bits
- ☐ WORKSTATION (Brand & type)
- ☐ CLUSTER (Brand & type & nodes)
- ☐ SUPERCOMPUTER (Brand & type)

TYPE OF OS USED FOR RUNNING: VERSION   DISTRIB
(PLEASE SPECIFY WHICH FLAVOUR)

- ☐ LINUX   10   SUSE
- ☐ UNIX
- ☐ MS-WINDOWS (95/98/NT/XP)
- ☐ OTHER (PLEASE SPECIFY)

EXTERNAL DATA

OTHER DATA SOURCES USED IN THE APPLICATION (OTHER NWP MODELS, SYNOP DATA, SATELLITE IMAGES, RADAR IMAGES, …)

FURTHER COMMENTS AND EXPLANATIONS:
    Please note that this version of the software is not developed any more. The new version of the monitoring system is an ongioing work. It will directly read ODB, will be based on PERL and will offer more complex statistics and visualization types. The software is being developed in the framework of RC-LACE.