

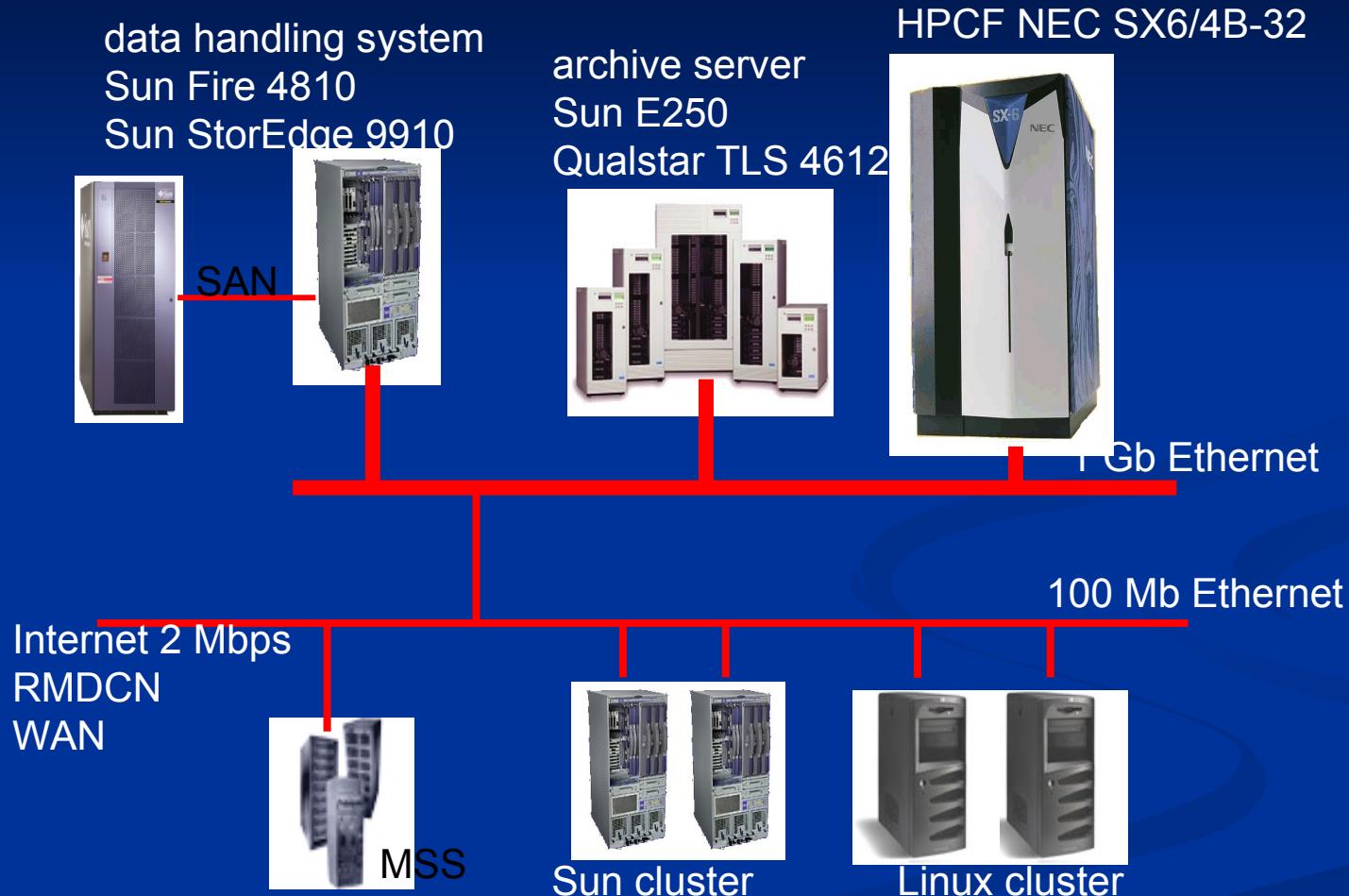
Status report of **ALADIN** at CHMI

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Highlights

- resolution upgrade of ALADIN/CE
 - ALADIN/MFSTEP operational
 - verification scores available from July 2002
 - products for RODOS
-
- SLHD / drag & lift / no envelope combination testing
 - low-level cloudiness improvement
 - PBL height diagnostics

Computing environment



Operational suite

- ALADIN/LACE domain
- 309x277 grid points, 159x143 truncation (linear)
- 9 km resolution, 43 vertical levels
- time step 360 s
- CY25T1_op4
- COCONUT tuning + modified Xu-Randal scheme
- DF blending cycle
- DF blending + incremental DFI on short cut-off

- hourly DIAGPACK

MFSTEP

Mediterranean Forecasting System Toward Environmental Predictions

- 589x309 grid points
- 299x159 truncation (linear)
- 9.5 km resolution
- 37 levels
- coupled to ARPEGE, 3h coupling period
- continuous long cut-off blending cycle
- retuned on case studies over sea (Black Sea case)
 - modified thermal roughness length over sea
 - moist gustiness parameterization
 - cloud parameterization scheme tuning
- production forecast 1x week to +120h
- OpenMP version in the preparation



domain (309x277 grid points, linear truncation E159x143, $\Delta x=9\text{km}$)

vertical levels, envelope orography

step 360 s

filter spectral blending long cut-off cycle (6h cycle, filtering)

station E47x42, no DFI in the next +6h guess integration)

filter blending + incremental DFI initialization of short cut-off

station analysis

GE/ALADIN cycle 25T1_op4

and physical parameterization scheme COCONUT with modified parameters

Lu-Randal cloudiness scheme

coupling interval

+12 UTC forecast to +48h

on-line fullpos

processing of near-surface parameters into selected localities using ob-

servers of CANARI

products for RODOS MATCH and LSMC modules

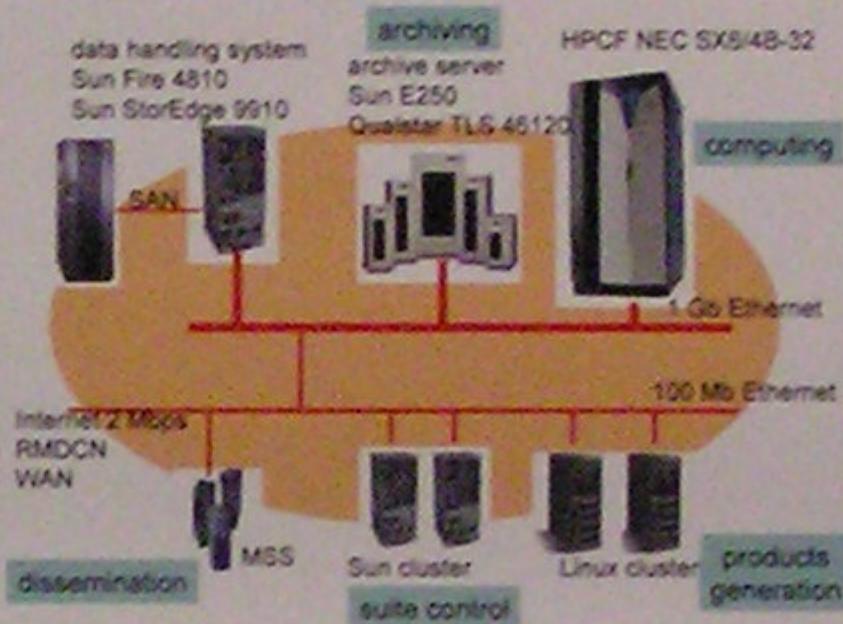
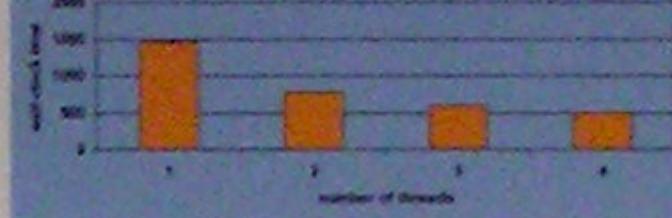
MEP (Mediterranean Forecasting System Toward Environmental Predictions):

forecasting cycle + 120h forecasts once per week (9.5 km, 589x309 grid)

DIAGPACK analysis of T_{2m} , RH_{2m}, v_{10m}, KO-index, CAPE, MOCON (Czech

observations only)

DIAGPACK on cycle AL12, port to ODB cycles (AL25) nearly ready



G suite: testing options for new operational v...