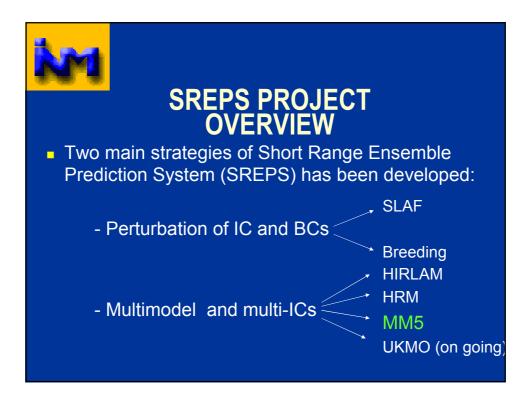


MM5 AT INM SREPS PROJECT

Daniel Santos SMNT – INM 2ª Reunión RED IBÉRICA MM5 LISBOA, MARZO 2004





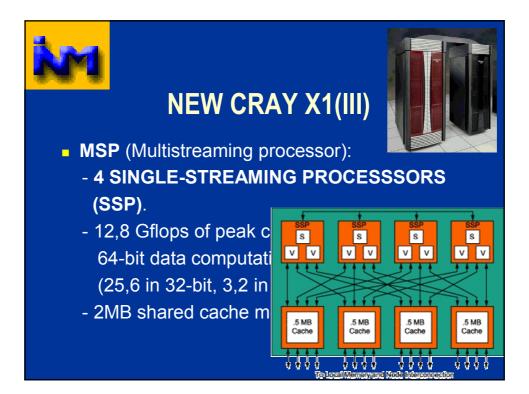
NEW CRAY X1



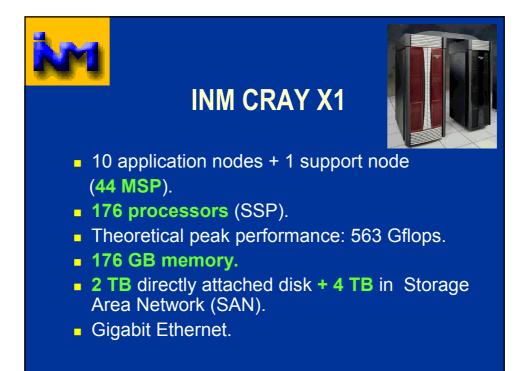
- Combines the two traditional CRAY approaches in computer design:
 - SINGLE PARALLEL VECTORIAL WITH SHARE MEMORY (as SV1).

- MASSIVE PARALLEL WITH DISTRIBUTED MEMORY (as T3E).

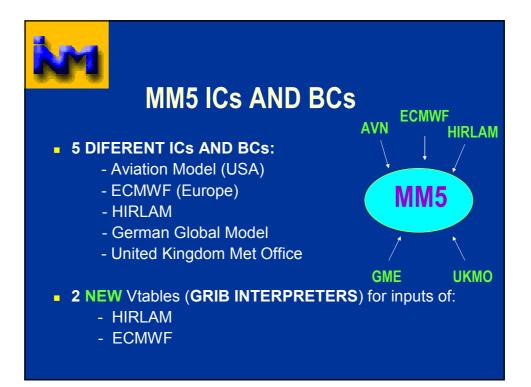










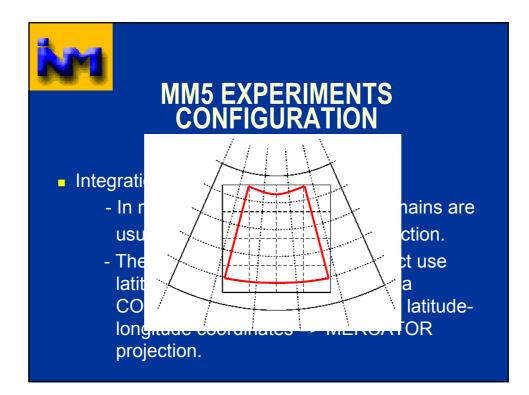






SUBRUTINES MODIFIED FOR HIRLAM INPUTS

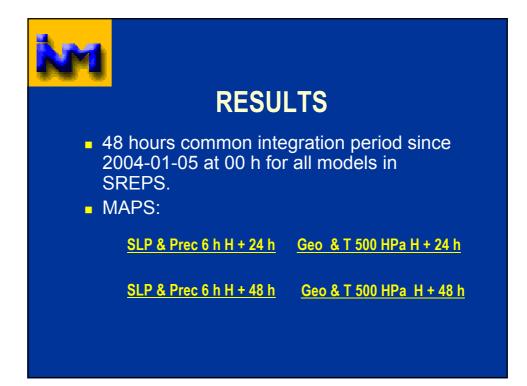
- 2 SUBRUTINES has been modified:
 - gribcode.F
 in REGRID package in order to allow
 KSEC(1) = 10 (=>Rotated GRIB).
 - proc_ingest_first_guess.F
 in REGRID package in order to transform
 HIRLAM RH in percent.





MM5 EXPERIMENTS CONFIGURATION (II)

- Physical options:
 - Explicit Moisture Scheme: Simple Ice (Dudhia).
 - Cumulus parametrizations scheme: Grell.
 - Planet Boundary Layer Scheme: MRF PBL.
 - Atmospheric Radiation Scheme: Cloud-Radiation
 - Ground Temperature Schemes: Multilayer mode.





CONCLUSIONS & FUTURE PLANS

- The model works automatically with this 5 ICs and BCs.
- We need to check the spread of this 5 ensemble members and also the quality of the forecast.(=> VALIDATION).
- We are doing a 15 day period of test.
- Non operative 2 INTEGRATIONS of this 5 members will be done dally during this summer.

