

MEDM to EDM Translator

Joan Sage



Date
Conference Name

Controls Group

MEDM to EDM Translator

- **EDM has been ported to HP-UX 11 for evaluation.**
- **JLab has thousands of MEDM screens which would need to be translated.**
- **Some Jlab screens have been created programmatically. They may differ in which widget parameters are defaulted.**



November 19-22

EPICS Collaboration

Controls Group

MEDM to EDM Translator

- **New translator is written in C++**
- **Expansion and update of original translator done in Perl by Pam Gurd**
- **For EDM-1-9-2j release**

MEDM to EDM Translator

➤ General Issues

- * **MEDM files omit default parameters.**
- * **EDM files include all parameters.**
- * **Some MEDM parameters translate directly**
 - **x, y, width, height for every widget**
- * **Some MEDM defaults must be translated.**
 - **align “horiz. Left”**
- * **Some EDM options are not available in MEDM.**
 - **top shadow color**

MEDM to EDM Translator

➤ MEDM text

- * User chooses box size
- * Font based on box size
- * Text may extend beyond width of box

➤ EDM text

- * User selects font size
- * Box may be autosized
- * Text will be clipped if box not autosized

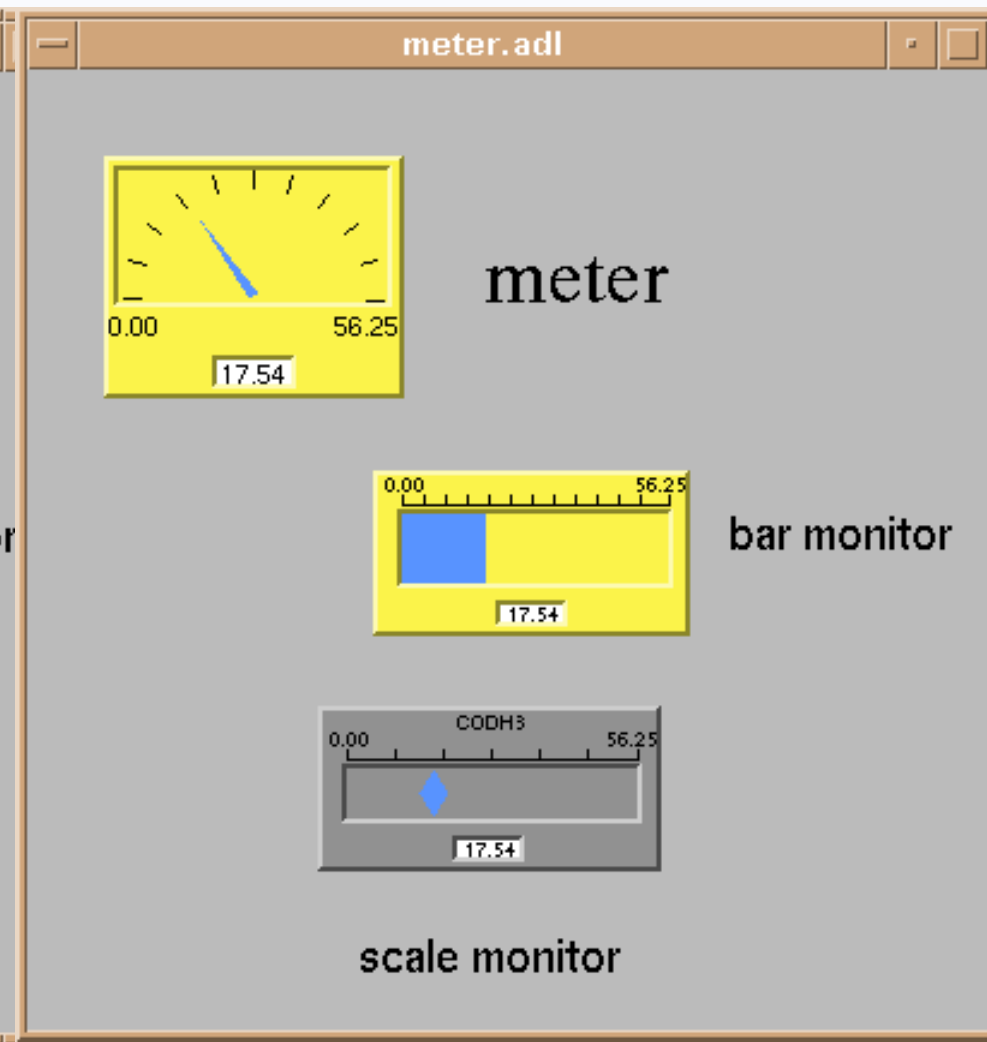
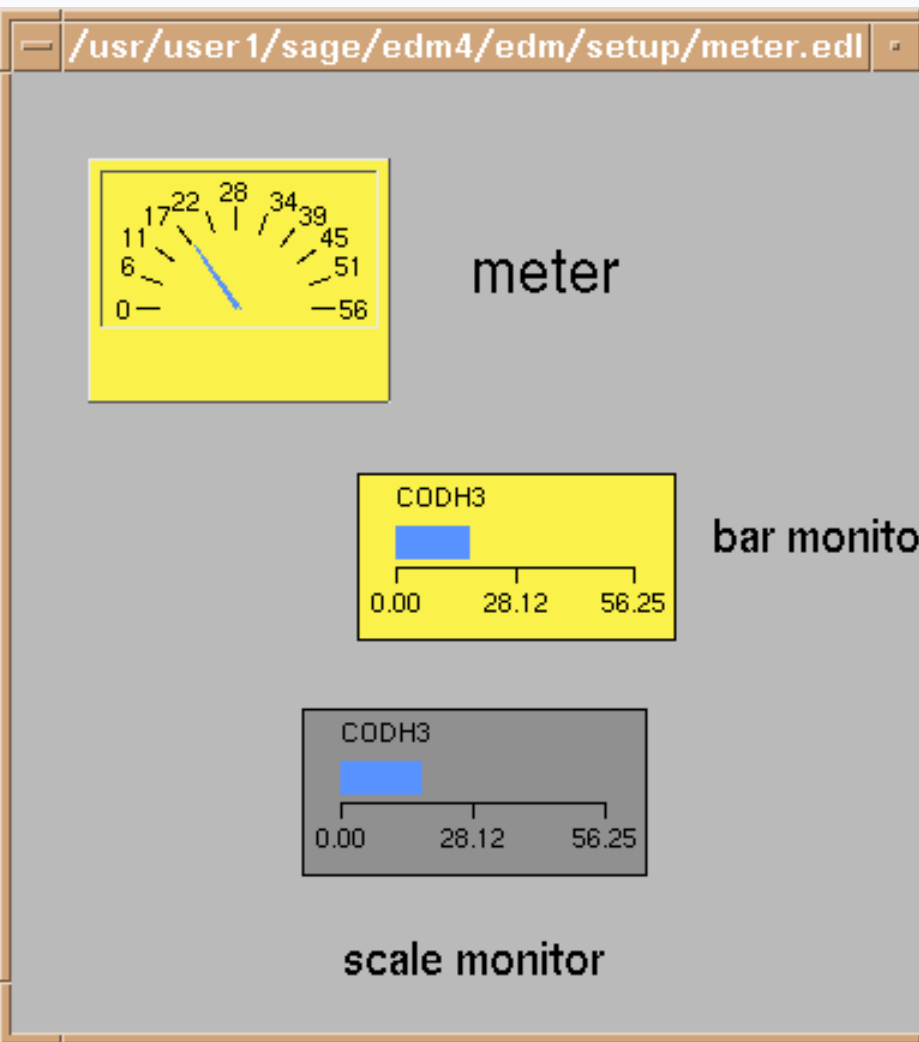
MEDM to EDM Translator

➤ Converting text


- * Get text string, width, height from MEDM file
- * Select a font based on height
- * If there is no alignment parameter
 - Set autosize to 1
- * Else compute width of string text
 - Change width parameter .
 - Set autosize to 0

MEDM to EDM Translator

- **Meters, Scale monitors, Bar monitors**
 - * **MEDM includes a digital readback**



Accelerator Main Menu




- Injector
- Gun/Laser
- Comfort Screens
- Plant Engineering
- Hall A
- Hall B
- Hall C

Subsystems

- BCM
- BLM / BSM
- BPM
- Cryogenics
- Data Acq
- Dumps
- FSD
- Harp
- IOC's
- Magnets
- RadCon
- RF
- Safety
- SRF Vacuum
- Vacuum
- Viewer
- Tools
- Developmental
- Simulators

(Green, 2002-10-30)

Accelerator Main Menu

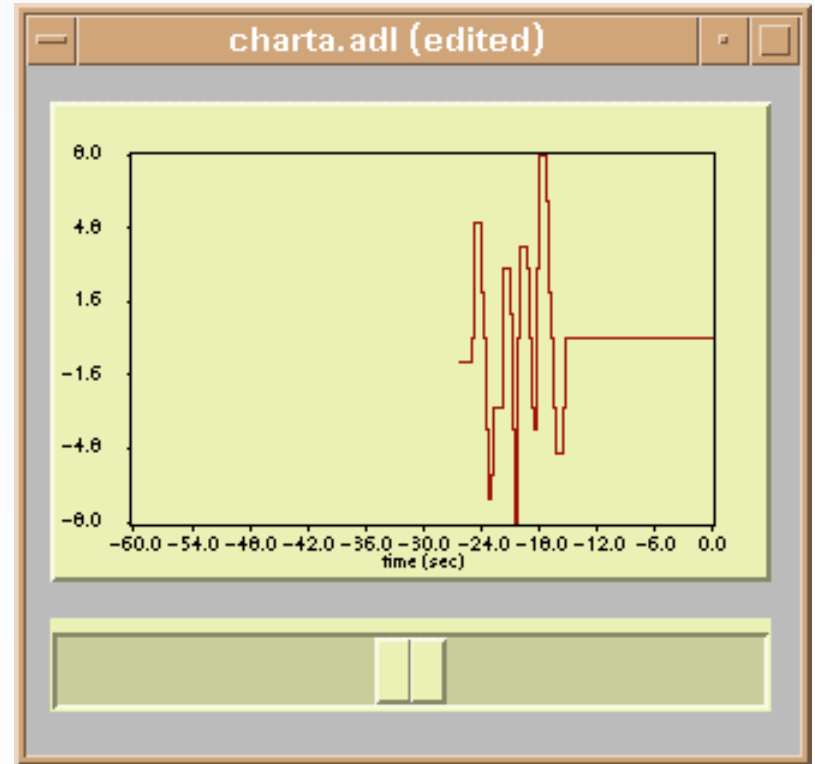
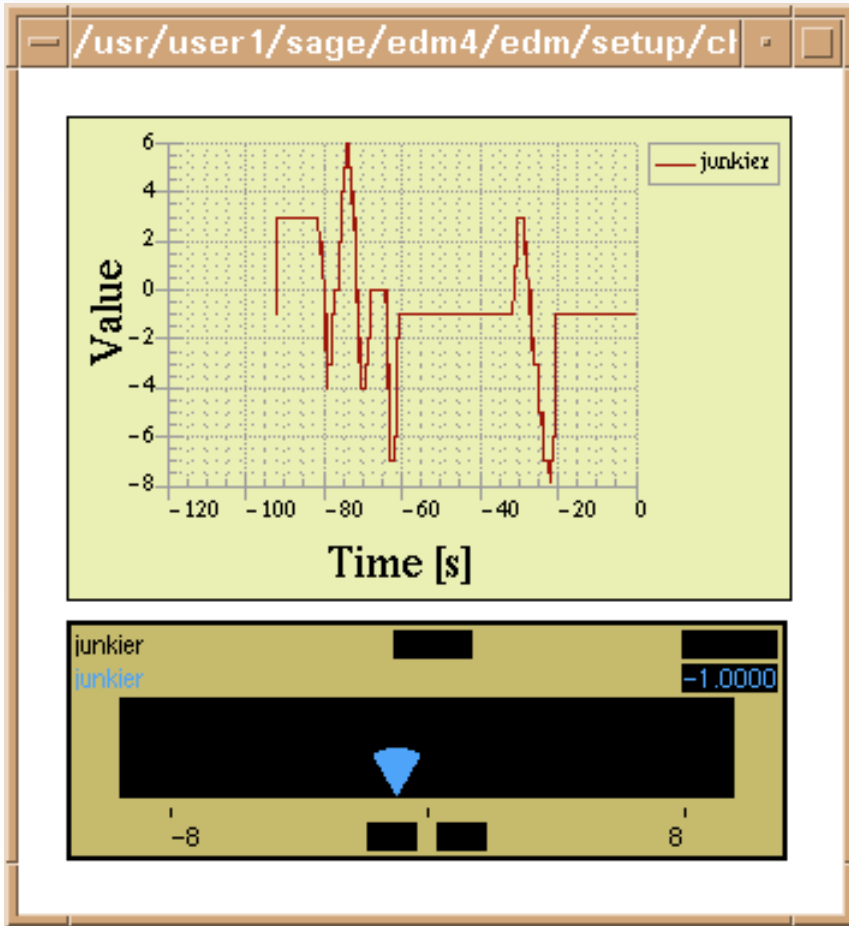


- Injector
- Gun/Laser
- Comfort Screens
- Plant Engineering
- Hall A
- Hall B
- Hall C

Subsystems

- BCM
- BLM / BSM
- BPM
- Cryogenics
- Data Acq
- Dumps
- FSD
- Harp
- IOC's
- Magnets
- RadCon
- RF
- Safety
- SRF Vacuum
- Vacuum
- Viewer
- Tools
- Developmental
- Simulators

(Green, 2002-10-30)



MEDM to EDM Translator

➤ Work to be done

- * Gif images, message buttons, menus
- * Dynamic symbols
 - Only rectangle alarms done
- * Composites
- * Visibility issues
- * Track down some errors which dump core
 - Problems not related to translation