



MULTIPLE MIRROR TELESCOPE OBSERVATORY

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MMTO Internal Technical Memorandum 93-1

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Subject: Remoting Sun Displays with xmx

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Say you want to send a parallel copy of a local Sun's display to a remote Sun's monitor. Note first that these must both be Steward-administered machines. This class includes *mmt* and *ross* and the machines served by *nelson*, as well as those served by *astro* and *qso*. For the sake of this example, assume that you are user *mmtobs*, logged in to *mmt* and you want to remote your display to *ross*. To do this with other machines, substitute the name of the local machine for *mmt* and the remote machine for *ross* is that which follows.

1. Log in to *mmt*.
2. From an Xterm or cmdtool window, rlogin to *ross* as *mmtobs*.
3. Edit the file *.rhosts* in */u/mmtobs* on *ross* to include a line that reads:
mmt.as.arizona.edu mmtobs
4. Logout from *ross*. Check that you have rsh access to *ross* using the command *rsh ross hostname*. It should reply with *ross*.
5. Create a file in *mmtobs*' home directory on *mmt* called *.xmsslaves.mmt* containing the name of the remote machine. In this case, *ross*.
6. Ensure that no one is logged on to *ross*' console.
7. Log off *mmt* and log on again. You will get an error message, ignore it. The initialization may appear to take a little longer than necessary. This is because the screen information is also being sent to *ross*.
8. At this point, everything that appears on *mmt*'s console also appears on *ross*. All input from *ross* is disabled, though movements of *ross*' mouse will move the mouse cursor on *ross*' screen.
9. Subsequent logins to *mmt* as *mmtobs* will also send the screen to *ross* if no one is logged on there. Therefore, if you want to disable this feature, delete the file *.xmsslaves.mmt*.

10. When you log off *mmt*, *ross*' screen will blank until a carriage return is hit on *ross*' keyboard. Then the *ross* login prompt will appear.

Note that the software that accomplishes this magic, *xmx*, is not supported by the Steward Computer Support Group, so you use it at your own risk. If this feature is used often, we can work out a way to make its use more transparent. Send me your comments.