

Preliminary comments:

Initial attempts made to establish printing from lab computers to a Brother HL_5250DN printer located in the 151 Lab (HSCI room 232) were unsuccessful. A brief discussion with T. Tran (IT) lead to a check to see if the ports in the 151 Lab room were in fact configured to the Physics Department IP net address (134.139.119.xxx). Those ports were not configured to the Physics Department address. A request to Network Engineering to configure ports in that room gave us the correct address on port D5. The other active ports were not configured per Network Engineering security protocols to prevent unauthorized access to university networks for peer-to-peer operations.

During computer printer setup, the computer setup dialog indicated that a driver for the Brother HL-5250DN printer from Apple existed. However, when the setup dialog was allowed to locate the driver it could not be found. This necessitated the download of appropriate drivers for Mac 10.7 from the Brother Solutions Center for the HL-5052DN printer. This download protocol will be described below. Note that this particular printer is no longer available from Brother.

| PRINTER SETUP | | | |
|---------------|--|--|----------------------|
| Step | Procedure | Result Expected | Result that Occurred |
| 1 | Disconnect UBS cable connecting printer to lab computer. | Cable disconnected | |
| 2 | Shut off printer. | Printer status lights go out | |
| 3 | Unplug printer from wall outlet. Wait briefly (about 1 minute) | Printer unplugged. | |
| 4 | Connect Ethernet cable (here cat5) into appropriately configured wall port (here D5). | Cable plugged into wall port | |
| 5 | Connect Ethernet cable to printer | Cable plugged into printer | |
| 6 | Plug printer power cord into wall outlet. | Printer status lights for toner, drum and paper operate and Status LED goes green | |
| 7 | After status LED is green, click GO button three times rapidly to print out Print Settings information. Three pages will be printed. On the last page at <IP Settings> the IP address will be printed. | The printer should print three Print Settings pages and the IP address on the last page should be 134.139.119.xxx. | |

| COMPUTER SETUP | | | |
|-----------------------|--|--|-----------------------------|
| Step | Procedure | Result Expected | Result that Occurred |
| | GET DRIVER | | |
| 1 | Double click on Phys151 logon button | Phys151 page opens | |
| 2 | In the DOCK, click on Safari (other internet access could be used) | Safari opens | |
| 3 | Use Goggle, insert the line "Brother Solutions Center HL 5250DN" | A list of Google sites is presented | |
| 4 | Choose the "Brother Solutions Center United States" site. | The Brother Solutions Center United States page opens | |
| 5 | Enter "HL-5052DN" in "Search by model name" window. | Search result page displays "HL-5250DN" | |
| 6 | Click on "HL-5052DN" | "HL-5052DN" page opens | |
| 7 | Click on "Downloads" | "Downloads" page opens | |
| 8 | At "Step 1" select "Mac OS X (10.7) " | "Step 2: Select Language" becomes available. | |
| 9 | Select "English" | "English" selected. | |
| 10 | Select "Search" button | A selection of various downloads is made available. | |
| 11 | Select "CUPS Printer Driver" File "Download & Information" | Download page for the Brother printer drivers opens. | |
| 12 | Select "Download" | A License page opens | |
| 13 | Select "I accept" | Drivers are downloaded (brxlaserx6_4000b.dmg) | |
| 14 | Double click the "dmg" file | brxlaserx6_4000b window opens with a "BrotherMLDrivers.mpkg" file displayed. | |

| COMPUTER SETUP | | | |
|----------------------------------|---|---|-----------------------------|
| Step | Procedure | Result Expected | Result that Occurred |
| 15 | Double click the “mpkg” file | An “Install BrotheMLDrivers” window opens. | |
| 16 | Follow all directions from installer to install Brothers drivers on the computer hard drive. | Driver installation successful | |
| 17 | Close all Safari and Drivers windows that were opened above. | Windows are closed. | |
| SETUP PRINTER ON COMPUTER | | | |
| 18 | Click on the “Apple” symbol in the extreme left corner of the top display bar. | Drop down menu appears. | |
| 19 | Select “System Preferences”. | “System Preferences” window opens. | |
| 20 | Select “Print & Fax”. | “Print & Fax” window opens. | |
| 21 | Select the lock symbol at the bottom left corner of the window to unlock the window. | A window opens requesting an administrators name and password. | |
| 22 | Supply “Macboss” for the administrator name and the appropriate password. | The lock is opened. | |
| 23 | Select the “+” symbol at the bottom of the “Printers” left hand display. | The “Add Printer” window opens. | |
| 24 | Select the “IP” symbol at the top of the window. | The IP printer window opens with 6 lines to be filled in to identify a printer and a driver for it. | |
| 25 | Select the “Protocol: “ “ HP Jetdirect – Socket”. | “HP Jetdirect – Socket” is displayed. | |
| 26 | In “Address: Type the IP address of the printer obtained from the Printer Setup procedure carried out previously. | IP address “134.139.119.xxx” is displayed. | |
| 27 | Do not do anything with the “Queue:” line. | “Queue:” is blank. | |
| 28 | In the “Name:” location type in a “common” name for the printer (here: Brother-151-Lab). | “Name:” line has a “common” name in it to be associated with the lab printer. | |

Lab 151 Printer connection procedure

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| COMPUTER SETUP | | | |
|----------------|---|--|----------------------|
| Step | Procedure | Result Expected | Result that Occurred |
| 29 | Do not do anything with the "Location:" line. | "Location:" is blank. | |
| 30 | In the "Print Using:" line select "Other". | A drop down menu is display of the computer system. | |
| 31 | Under "Devices" select "Macintosh HD". | Folders for the hard drive are displayed. | |
| 32 | Select "Library". | Library folders displayed. | |
| 33 | Select "Printers". | Printer folders displayed. | |
| 34 | Select "PPDs". | PPDs folder displayed. | |
| 35 | Select "Contents". | Contents folder displayed. | |
| 36 | Select "Resources". | Resources Brother printer files displayed. | |
| 37 | Select "Brother HL-5250DN series CUPS.gz". | "Brother HL-5250DN series CUPS.gz" Preview displayed. | |
| 38 | Select "Open". | Printer driver added to "Print Using:". | |
| 39 | Select "Add". | Printer is added to "Printers" list on "Print & Fax" window. | |
| 40 | Test print capability (Select a page and print it). | Selected page printed out by printer. | |
| 41 | Close all windows. | All windows are closed. | |
| 42 | Log out Phys151. | Logout occurs. | |
| 43 | DO ABOVE FOR ALL COMPUTERS in Lab | | |