

1.0 An Example Using Importances

This example uses the islab input file. The islab file consists of three infinite lead slabs between a source and the outside world. When the importances for the source and the three lead slabs are set to 1 (and the outside world is set to zero), a particle track plot of the geometry is shown in *Figure 1-1*.

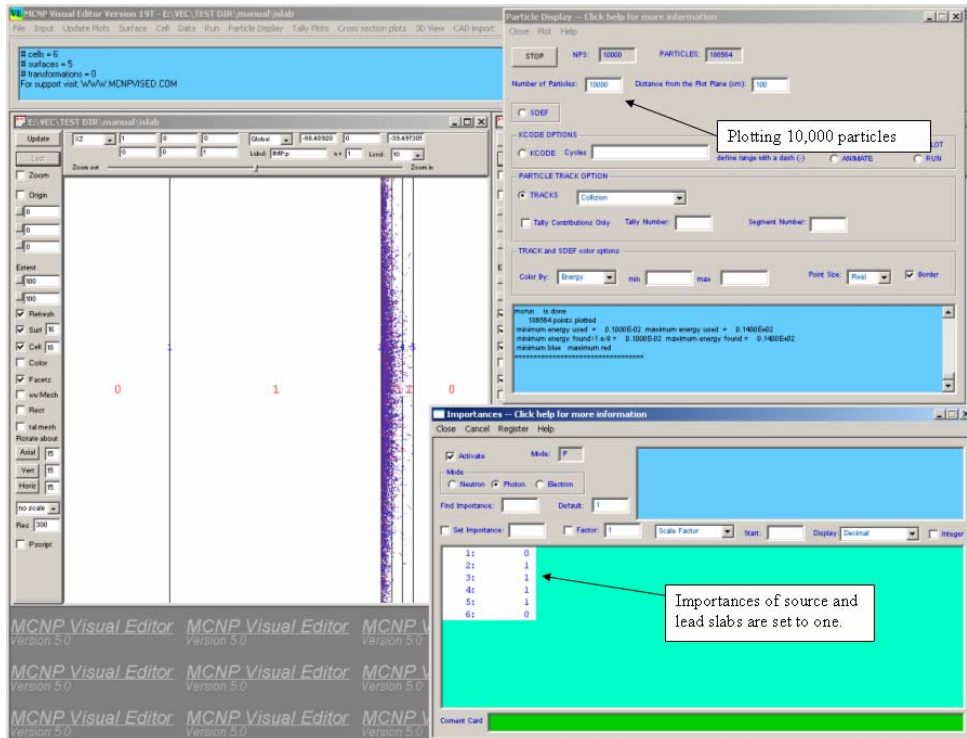


Figure 1-1 Particle Track Plot of Three Lead Slabs with Importance of 1

When the importances are modified to a geometric progression, the particle track plot is as displayed in *Figure 1-2*.

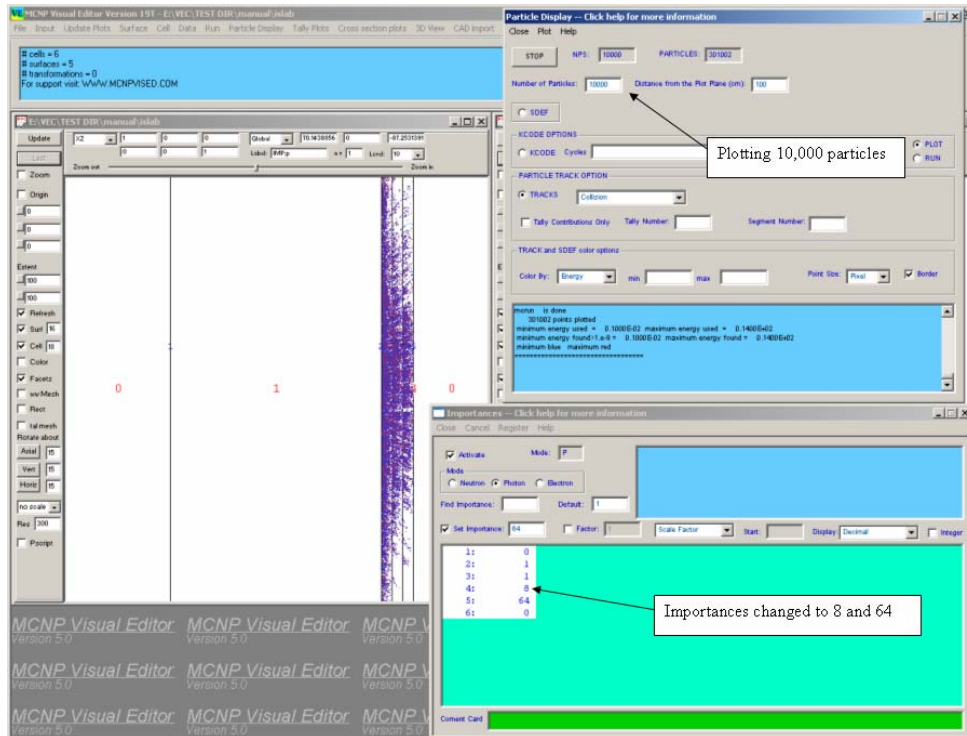


Figure 1-2 Particle Track Plot of Three Lead Slabs with Importances of 1, 8, and 64

1. Open the **islab** input file.
2. Click on **Update Plots**. This will display the geometry.
3. Check the **Surf** and **Cell** checkboxes. Turn on Surface and Cell numbers.
4. Click on **Data...Importances** to display the Importances window. Note that all importances are set to 1.
5. Click on **Cell 4** to highlight it.
6. Click on the **Set Importance** check box.
7. Type **8** in the box next to the Set Importance check box.
8. Click **Register** to register the new importance.

Figure 1-3 illustrates steps 1-8.

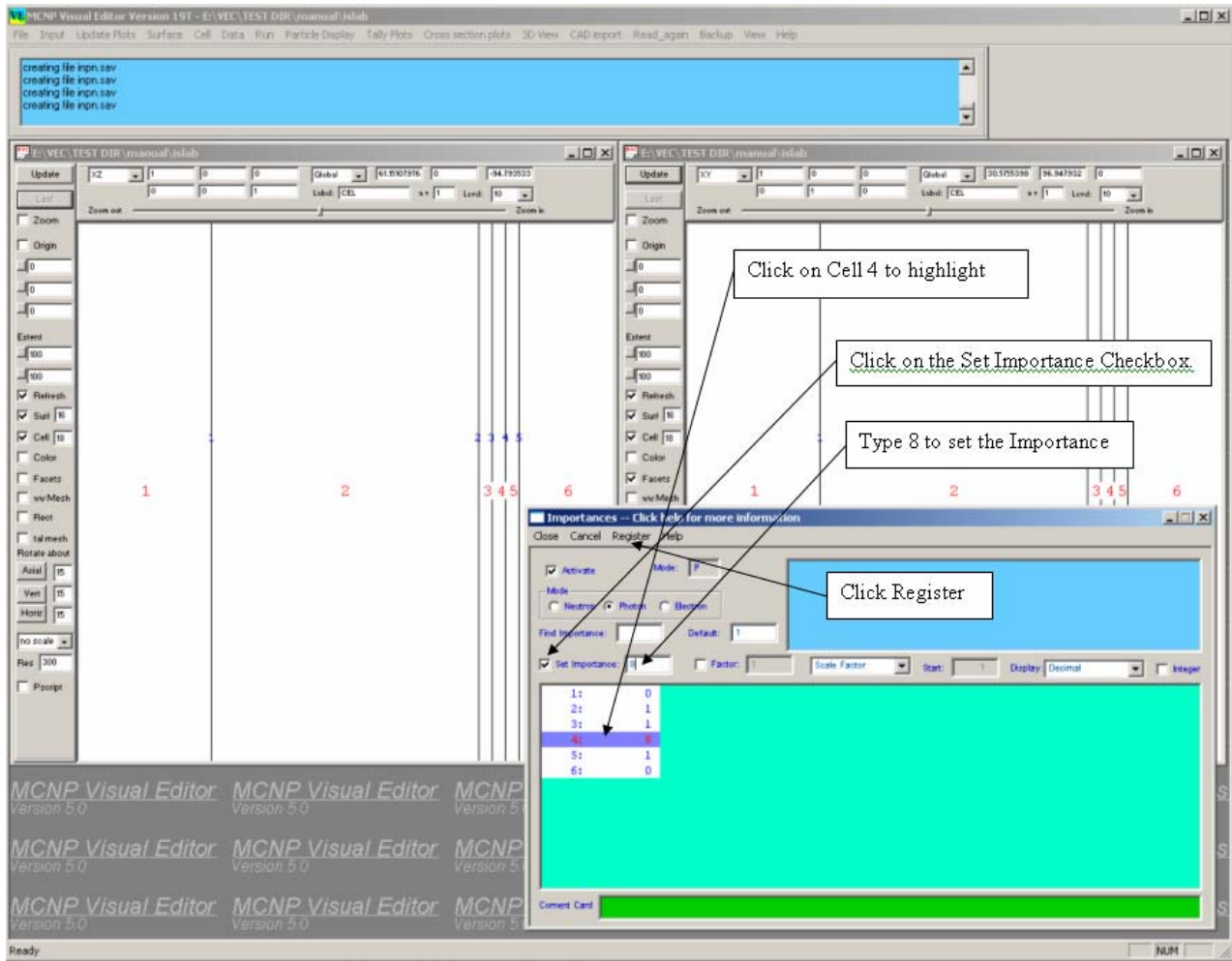


Figure 1-3 Set the Importance of Cell 4 to 8.

The cell can be chosen by clicking on the cell number in the Importance panel or by clicking on the cell in the plot window.

9. **Click in Cell 5** on the left plot window.
10. **Type 64** in the **Set Importance Check box**.
11. **Click on Register**.

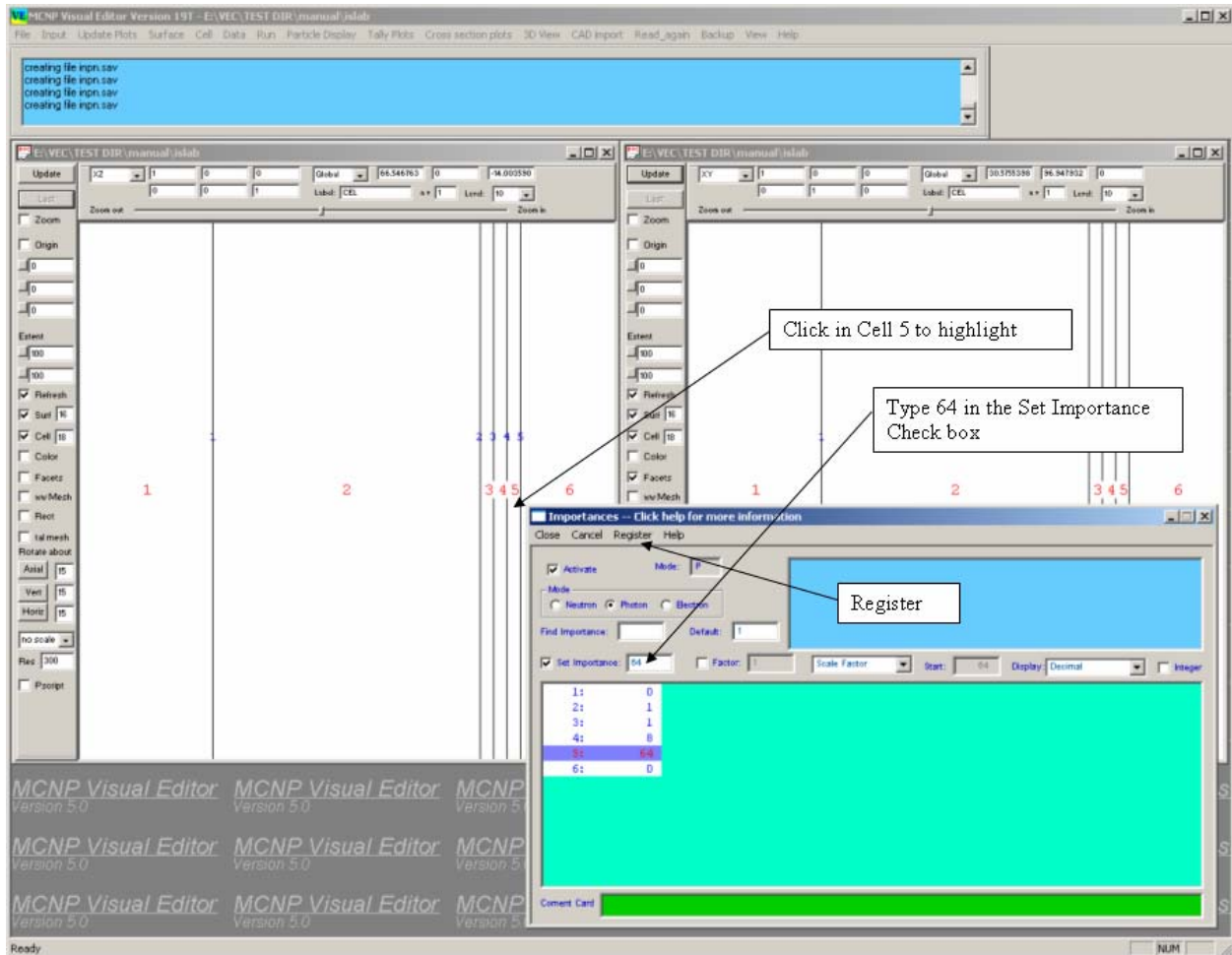


Figure 1-4 Set the Importance of Cell 5 to 64

12. Change the Display to Powers of 2 and note that the importances on cells 4 and 5 change from 8 and 64 to 3 and 6.

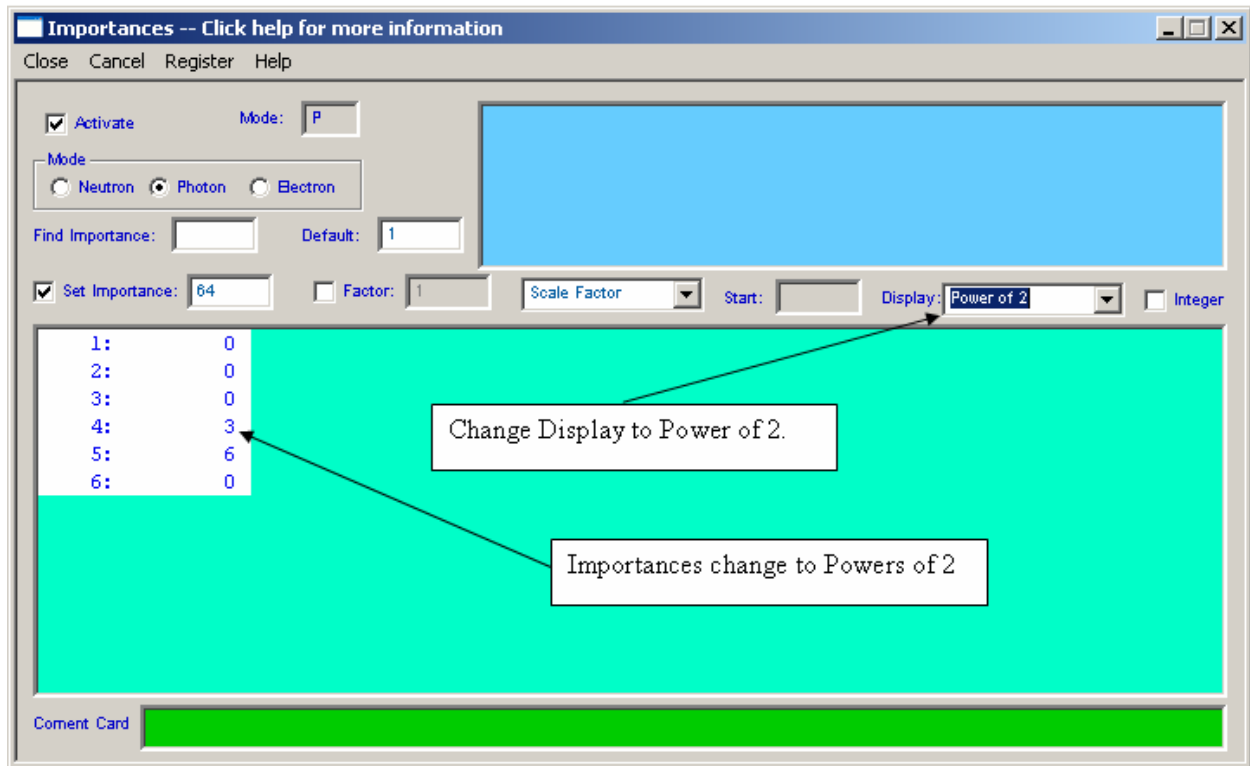


Figure 1-5 Change Display to Power of 2