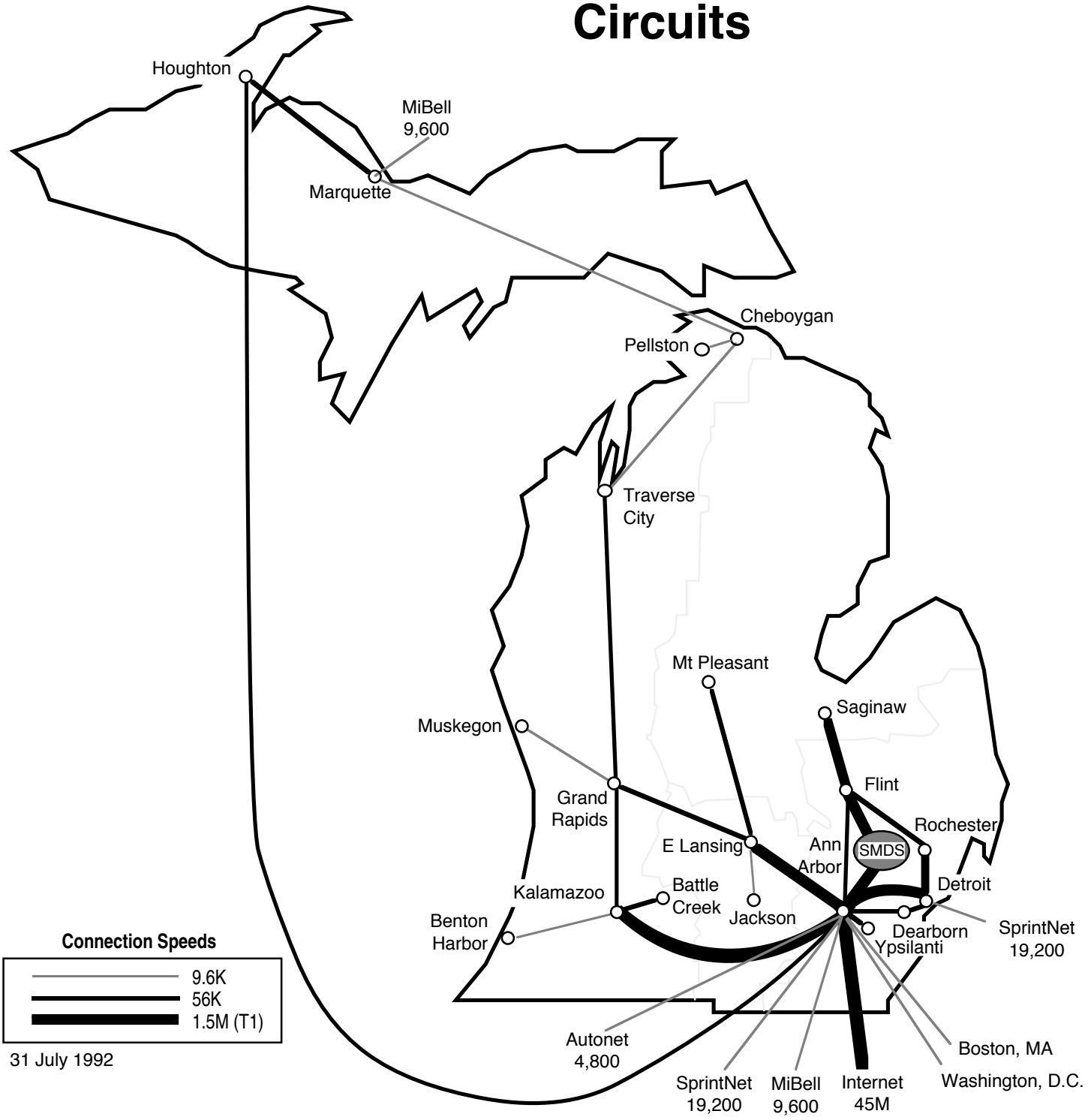Current MichNet Circuits