In this paper, an inter-core crosstalk based wavelength selection scheme has been proposed for flex-grid super-channels in space division multiplexed transmission. The two λ-selection strategies are categorized as: (a) aligned wavelength super-channels (A\textlambda-SCs), where all super-channels are placed at same \lambda in all the cores and (b) interleaved wavelength super-channels (I\lambda-SCs), where all super-channels are placed at different \lambda in all the neighboring cores. It is depicted that system performance is improved for DP-16QAM channels in 1-Pbit/s (448 WDM/19 Core/128 Gbit/s/channel) 60 km fiber link, when I\lambda-SCs scheme is implemented.