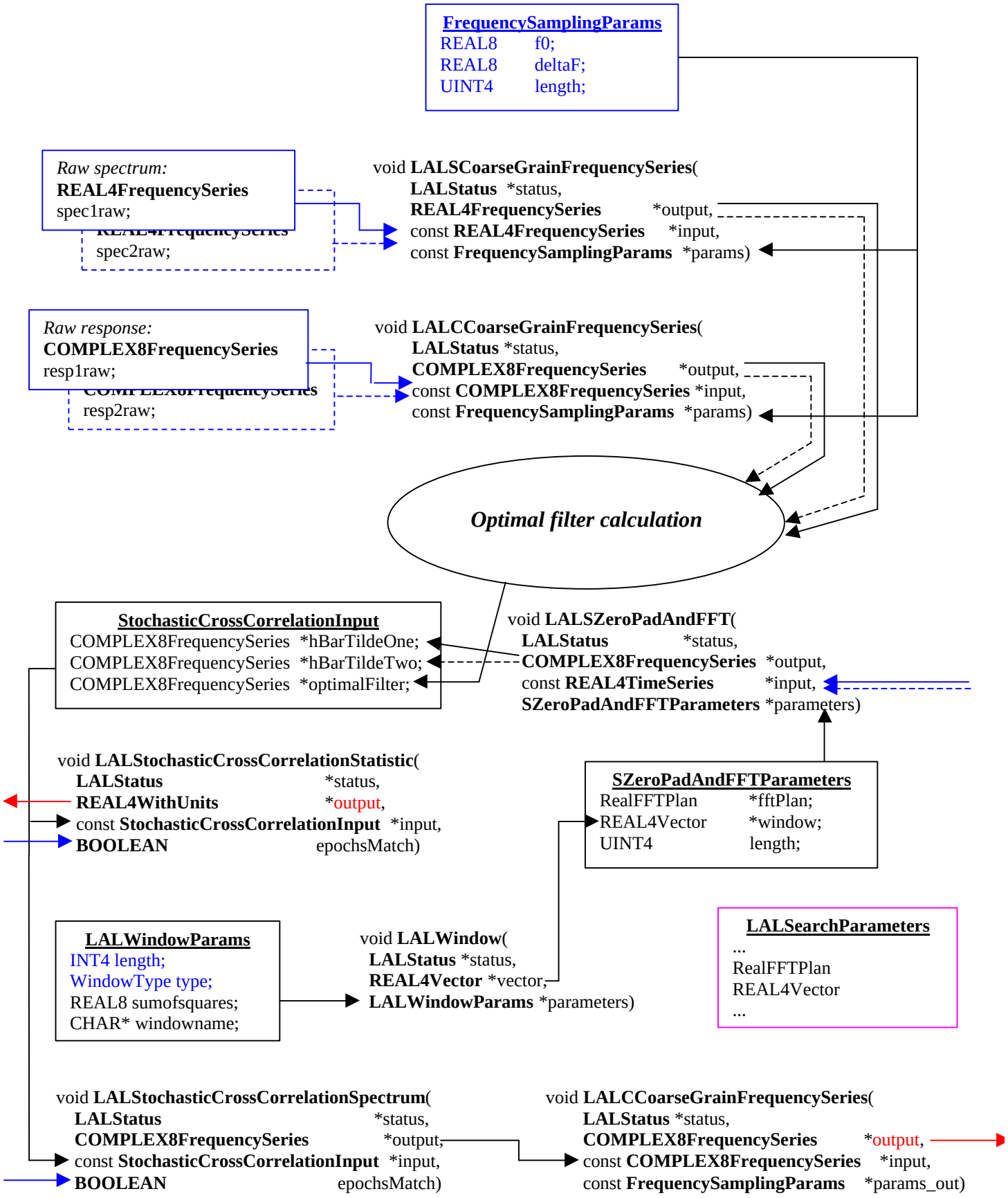Cross-correlation calculation using LAL routines