## **Application Code** int call() prepare call arguments **AEX Path** ► TCS try { CSSA **Enclave Code** EENTER **OENTRY** void entry() RCX: AEP | RBX: TCS RCX set by store call results EENTER catch (AEX e) read ESP from FS:TLS Resumable Yes PUSH RCX exception? perform enclave computation No POP RBX return ERROR; EEXIT **Synchronous ERESUME Execution Path** RCX: AEP RBX: TCS store call results } return SUCCESS; SSA Ring 0 Stack **XSAVE** System Software Hardware Exception Handler **GPRs GPRSGX** void handler() Code **AEP** save GPRs **RIP** U\_RBP handle exception **U\_RSP** CS restore GPRs **RFLAGS** Registers IRET **RSP** cleared } by AEX SS