Interrupts Friday, March 1, 2019 2:30 AM · An interrupt is on ment that requires c'mmediate attention. . When any device needs attention, It ests is contament flag to ligh-. Whon our contempet is raised , CPU stops whatever it is doing and it jumps to the vortewyst handles for specific interrupt When CPU finishes enecuting The interrupt handler, it returns bock to the some place where interrupt happened and propocoon controvues. Enomple: Key poess, mouse etc. âters to hardle contamyto 1 when an interverent is racked, for that particular orderwunt. @ Before calling the torteweight handler, CPU sames the program countres and registeres in the enecuting stack. (3) Thon it finds the specific interrupt handles by looking in the interrupt rector. (4) Once intercupt handles is found, CPV jumps to interrupt handler and sums it. Then CPV rectours the registers and retwers ball to the address at which it was premiously enecuting. (6) Fortewysts allow CPU and device to seen in parallel without waiting for each other. Interrupt vector HD interrupt handles > USB interrupt handler and ortavent > Extruoret naodles Page fault intownpt, handler * Device interrupts Intercrupts radied of devices whom it needs CPU attention or when a request is complete. Enample: Mouse is moved, key is pressed str. * Application intowurts Interrupts raised by applications. like onceptions for everyple suppose in the application programs, we are doing an operation like dividing by zoes. It will rake an enception. This enception is called Math enceptions. * Page faults This loctourupt is generated by the Memory Management Unit (MMU). The job of MMC is to convert virtual roconory address to physical memory adduers. · Invalid address : Interrupt sonds a SEGN signal to the process when process is trying to address bovaled oddiers. If process is toying to access a valid address and there is no couverposting page on the onemony. a address but that address has invalid puronission * do there are interrupto lilie device enterrytes, application interrupt, rorath vortevoupts, page faults, laftware intervents * Software c'nterrupts It is foreign to request any operating system securics.