```
Definition va_load p σ rs rd va :=
match ZMap.get (PDX va) (pgmap<sub>o</sub> \sigma) with
   PDEValid pte =>
     match ZMap.get (PTX va) pte with
       | PTEValid pg _ =>
           Next (rs # rd <-
              FlatMem.load (HP \sigma) (pg*PGSIZE + va%PGSIZE))
         PTEUnPresent => exec_pagefault p σ rs va
     end
```