**Intel Pin**

* Sites Intel Pin:
  + Site oficial: <https://www.intel.com/content/www/us/en/developer/articles/tool/pin-a-dynamic-binary-instrumentation-tool.html>
  + Download:
    - wget https://software.intel.com/sites/landingpage/pintool/downloads/pin-3.27-98718-gbeaa5d51e-gcc-linux.tar.gz
* Compilando todos os programas exemplo:
  + cd source/tools/ManualExamples
  + make all TARGET=intel64

* Teste
  + Acessar a pasta com programas exemplos
    - cd /usr/local/pin-3.27-98718-gbeaa5d51e-gcc-linux/source/tools
    - cd /usr/local/pin-3.27-98718-gbeaa5d51e-gcc-linux/source/tools/Memory#
    - pasta obj-intel64 contém programas que podem ser avaliados
  + Executar o Pin no programa selecionado conforme a pasta anterior selecionada:
    - ../../../pin -t obj-intel64/icache.so -- /bin/ls
    - Casio :
      * ../PIN/pin/pin -t ../PIN/pin/source/tools/SimpleExamples/obj-intel64/opcodemix.so -- ../APP\_escolhidos/RADIX
      * ../../pin -t SimpleExamples/obj-intel64/opcodemix.so -- ./programs\_selected/RADIX
    - Testar com outros utilitários do PINTool
* Programas selecionados (mesmos do Sniper e Perf)
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* Pin
  + baixei os binários do site da intel https://www.intel.com/content/www/us/en/developer/articles/tool/pin-a-binary-instrumentation-tool-downloads.html
  + manual de como executar instruções de de exemplo:
    - https://software.intel.com/sites/landingpage/pintool/docs/98718/Pin/doc/html/index.html#EXAMPLES