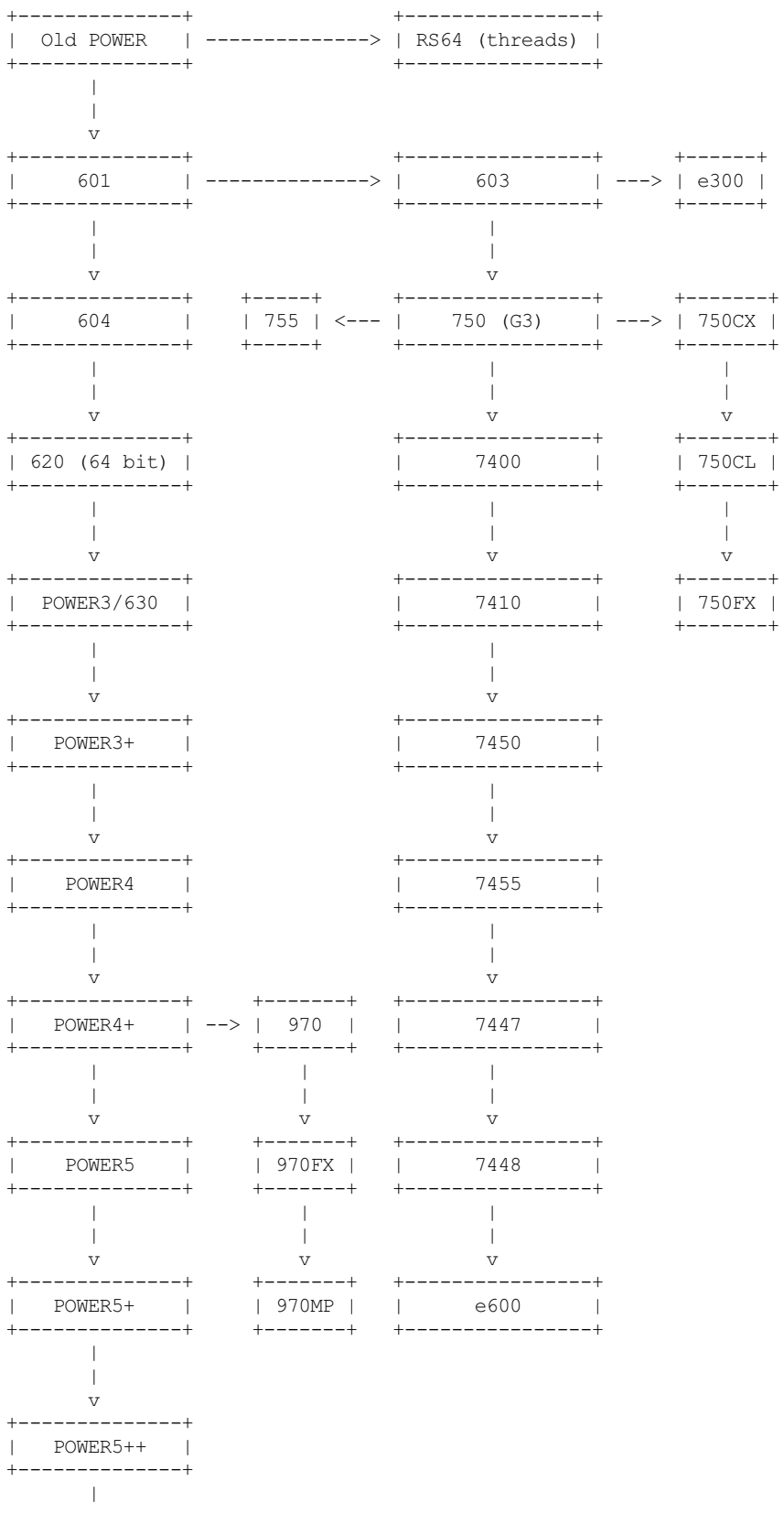
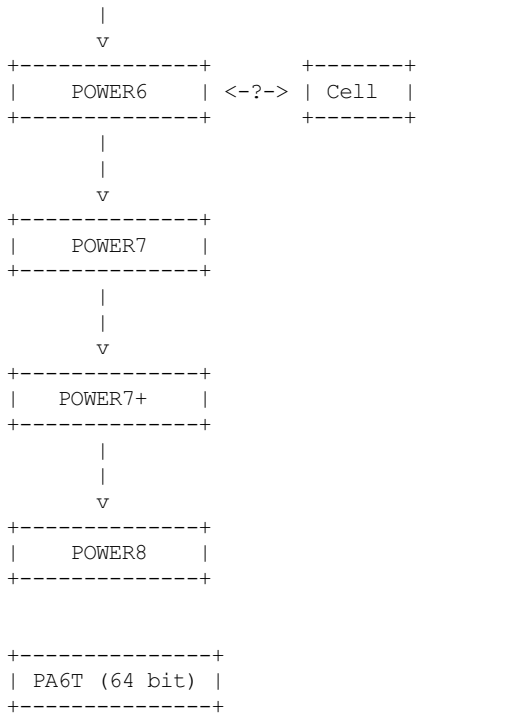
CPU Families

This document tries to summarise some of the different cpu families that exist and are supported by arch/powerpc.

Book3S (aka sPAPR)

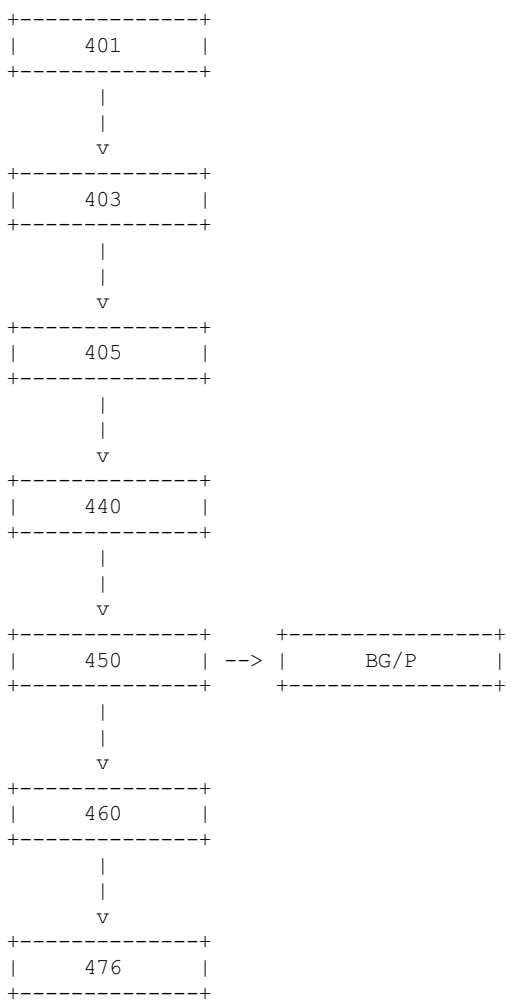
- Hash MMU (except 603 and e300)
- Software loaded TLB (603 and e300)
- Selectable Software loaded TLB in addition to hash MMU (755, 7450, e600)
- Mix of 32 & 64 bit:





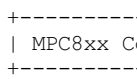
IBM BookE

- Software loaded TLB.
- All 32 bit:



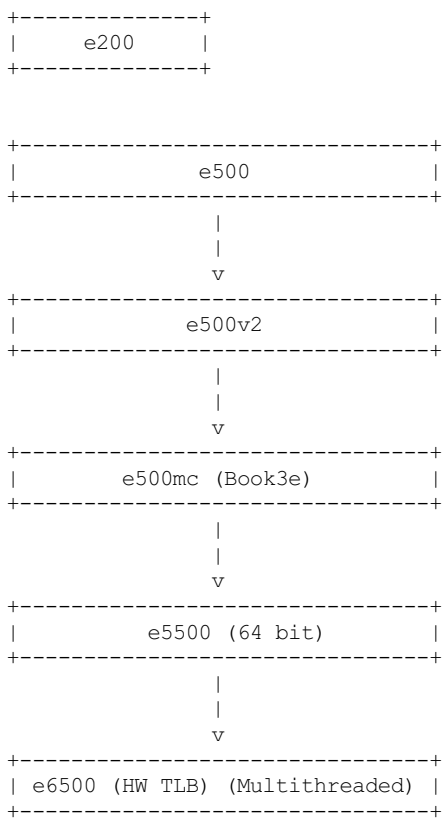
Motorola/Freescale 8xx

- Software loaded with hardware assist.
- All 32 bit:



Freescale BookE

- Software loaded TLB.
- e6500 adds HW loaded indirect TLB entries.
- Mix of 32 & 64 bit:



IBM A2 core

- Book3E, software loaded TLB + HW loaded indirect TLB entries.
- 64 bit: