**Transistor density over Time** Fab (nm) O null **O** 4 **O** 5 **O** 6 **O** 7 0 8 **O** 12 0.2-**1**4 **O** 16 **O** 40 0.1 **O** 65 00 08 **O** 90 000 0 0000 00 Vendor O AMD Intel Transistor Density (B/mm2) ▲ NVIDIA 0.02 -CONTRACTOR OF A STANDARD OF A 0 0.01 0 0.002 -8 000 60 0 0.001 **A A** ΔΔ 0.0002 0.0001 2006 2008 2010 2011 2001 2002 2003 2004 2005 2007 2009 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2000 Launch