

מעבדות תיכון שדה בוקר
לוחות חשמל
חד קווי

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Diagram illustrating the evolution of the universe from the Big Bang to the present. The vertical axis represents time (t) and the horizontal axis represents the scale factor (a).

Key events and corresponding values:

- Big Bang: $t = 0$, $a = 0$
- Formation of the first stars: $t = 10^5$ years, $a = 10^{-4}$
- Formation of the first galaxies: $t = 10^8$ years, $a = 10^{-3}$
- Formation of the first clusters: $t = 10^9$ years, $a = 10^{-2}$
- Formation of the first superclusters: $t = 10^{10}$ years, $a = 10^{-1}$
- Formation of the first voids: $t = 10^{11}$ years, $a = 10^0$
- Present: $t = 10^{12}$ years, $a = 10^1$

The diagram also shows the expansion of the universe, with the scale factor increasing over time.

The diagram illustrates the 12-month calendar for the year 5778 (2017-2018). The months are arranged in a grid, with each date marked by a small icon representing the day of the week. The months shown are: Tishrei (Tishrei), Cheshvan (Cheshvan), Kislev (Kislev), Tevet (Tevet), Shvat (Shvat), Adar (Adar), Nisan (Nisan), Iyar (Iyar), Sivan (Sivan), Tamuz (Tamuz), Av (Av), and Elul (Elul). The diagram also includes the names of the months in Hebrew and their corresponding Gregorian dates. At the bottom, there is a section for the 'Moadim' (holidays) of the year, listing the dates for Rosh Hashana, Yom Kippur, Sukkot, Shmini Atzeret, Simchat Torah, Tu B'Shvat, Purim, Pesach, Shavuot, and Tisha B'Av.

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Figure 1 illustrates the proposed 32-bit parallel multiplier architecture. It consists of four 8-bit multipliers (M0, M1, M2, M3) connected in parallel. Each multiplier takes an 8-bit input A (A7-A0) and an 8-bit input B (B7-B0) and produces an 8-bit output P (P7-P0). The outputs are then summed to produce the final 32-bit product. The diagram includes labels for the inputs, outputs, and the internal structure of the multipliers.