5) (A(x;) op(x;, y;)) o Q(y;, Zk) = Max (max (A(x;) · P(x;, y;)) · Q(y;, Zk)) = max (max (max (A(x;) · P(x;, y;)) · Q(y;, Zk)) = max (max (A(x,) . P(x; y;) . Q(y; Zk)) + max (x(;)) = max(x(;)) Since A does not include j, take it outside = max (A(x;) \* max (P(x; y;) \* Q(y; , Zk)) A(x;) 0 (P(x;,y;) · Q(y;, Zk)) This implies that the max product composition is associative. It can be used to parallelize the sequential control that uses max product composition.