ma-join[11,40]

$M_1 \oplus M_2$
$\equiv_{\text{def}}$ ma{$M_1.1 \oplus M_2.1$;
$(M_1.2).1 \oplus (M_2.2).1$;
$(M_1.2.2).1 \oplus (M_2.2.2).1$;
$(M_1.2.2.2).1 \oplus (M_2.2.2.2).1$;
$(M_1.2.2.2.2).1 \oplus (M_2.2.2.2.2).1$;
$(M_1.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2.2.2.2.2.2).1$;
$(M_1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2).1 \oplus (M_2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2).1$}

clarification:

$M_1 \oplus M_2$
$\equiv_{\text{def}}$ ma{fpf-join(IdDeq;$M_1.1$;$M_2.1$);
fpf-join(KindDeq;$(M_1.2).1$;$(M_2.2).1$);
fpf-join(IdDeq;$(M_1.2.2).1$;$(M_2.2.2).1$);
fpf-join(IdDeq;$(M_1.2.2.2).1$;$(M_2.2.2.2).1$);
fpf-join(product-deq(Knd;Id;KindDeq;IdDeq);$(M_1.2.2.2.2).1$;$(M_2.2.2.2.2).1$);
fpf-join(product-deq(Knd;IdLnk;KindDeq;IdLnkDeq);$(M_1.2.2.2.2.2).1$;$(M_2.2.2.2.2.2).1$);
fpf-join(IdDeq;$(M_1.2.2.2.2.2.2).1$;$(M_2.2.2.2.2.2.2).1$);
fpf-join(product-deq(IdLnk;Id;IdLnkDeq;IdDeq);$(M_1.2.2.2.2.2.2.2).1$;$(M_2.2.2.2.2.2.2.2).1$);
fpf-join(KindDeq;$(M_1.2.2.2.2.2.2.2.2).1$;$(M_2.2.2.2.2.2.2.2.2).1$);
fpf-join(KindDeq;$(M_1.2.2.2.2.2.2.2.2.2).1$;$(M_2.2.2.2.2.2.2.2.2.2).1$);
fpf-join(IdDeq;$(M_1.2.2.2.2.2.2.2.2.2.2).1$;$(M_2.2.2.2.2.2.2.2.2.2.2).1$);
fpf-join(IdDeq;$(M_1.2.2.2.2.2.2.2.2.2.2.2).1$;$(M_2.2.2.2.2.2.2.2.2.2.2.2).1$)}

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http://www.nuprl.org/FDLcontent/p0_963683_/p48_86249_{ma-join}.html