

## 1. Computations

1.1.  $\sum \text{ABC}$

## 1.2. $\sum \mathbf{A}\mathbf{A}^T$

### 1.3. $\sum \mathbf{A} \mathbf{A}^T \mathbf{A}$

1.4.  $g(\mathbf{x} \rightarrow \mathbf{x}^4, \mathbf{W})$

$$\begin{aligned} & 2)), 1)) .* 6) + (\text{sum}(\text{sum}(( ( W .* W) .* ( W .* W)), \\ & 2), 1) .* 4) + (( \text{sum}(\text{sum}(W, 2), 1) .* \text{sum}(\text{sum}(W, \\ & 2), 1)) .* \text{sum}(\text{sum}(( W .* W), 2), 1)) .* 6) + (( \\ & \text{sum}(( \text{sum}(W, 2) .* \text{sum}(W, 2)), 1) .* \text{sum}(\text{sum}(( W .* W), \\ & 2), 1)) .* 6) + (( \text{sum}(\text{sum}(( W .* W), 2), 1) .* \\ & \text{sum}(\text{sum}(( W .* W), 2), 1)) .* 3) + (\text{sum}(( \text{sum}(( W .* W), 1) .* \\ & \text{sum}(( W .* W), 1)), 2) .* -6) + (\text{sum}(( \\ & \text{sum}(( W .* W), 2) .* \text{sum}(( W .* W), 2)), 1) .* -6) \\ & + (\text{sum}(\text{sum}(( ( W .* (W')) .* ( W .* (W'))), 1), 2) .* \\ & 6))) / 256; \end{aligned}$$

1.5.  $g(x \rightarrow x^5, W)$

$$\begin{aligned} & ((\text{sum}(\text{sum}(\text{repmat}((\text{sum}(W, 1) .* \text{sum}(W, 1)), [n, \\ & 1]) .* ( (\text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{repmat}(\text{sum}(W, \\ & 1), [n, 1])) .* W))), 2), 1) .* -40) + (\text{sum}(((\text{sum}(W, \\ & 1) .* \text{sum}(W, 1)) .* \text{sum}((\text{repmat}(\text{sum}(W, 1), [n, 1]) \\ & .* ( \text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{repmat}(\text{sum}(W, \\ & 1), [n, 1]))) , 1)), 2) .* -10) + ((\text{sum}(\text{sum}(W, 2), \\ & 1) .* \text{sum}(( (\text{sum}(W, 2) .* \text{sum}(W, 2)) .* \text{sum}(( W \\ & .* W), 2))), 1)) .* -60) + (\text{sum}((\text{repmat}(\text{sum}(\text{sum}(W, \\ & 2), 1), [n, 1]) .* (\text{repmat}(\text{sum}(\text{sum}(W, 2), 1), [n, \\ & 1]) .* \text{sum}(( (\text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{rep-} \\ & \text{mat}(\text{sum}(W, 1), [n, 1])) .* W), 2)))), 1) .* 60) + \\ & (\text{sum}((\text{sum}(( W .* \text{repmat}(\text{sum}(W, 1), [n, 1])), 2) .* \\ & \text{sum}((\text{repmat}(\text{sum}(W, 1), [n, 1]) .* ( \text{repmat}(\text{sum}(W, \\ & 2), [1, m]) .* \text{repmat}(\text{sum}(W, 1), [n, 1]))), 2)), 1) .* \\ & 60) + (\text{sum}(\text{sum}(( (\text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{rep-} \\ & \text{mat}(\text{sum}(W, 1), [n, 1])) .* ( W .* ( W .* W))), 2), \\ & 1) .* 80) + (\text{sum}((\text{sum}(W, 2) .* (\text{sum}(W, 2) .* \text{sum}(( \\ & (\text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{repmat}(\text{sum}(W, 1), \\ & [n, 1])) .* W), 2))), 1) .* -40) + (\text{sum}((\text{repmat}(\text{sum}(( \\ & \text{sum}(W, 2) .* \text{sum}(W, 2)), 1), [n, 1]) .* \text{sum}(( (\text{rep-} \\ & \text{mat}(\text{sum}(W, 2), [1, m]) .* \text{repmat}(\text{sum}(W, 1), [n, 1])) \\ & .* W), 2)), 1) .* 60) + ( ( (\text{sum}(W, 1) * (W')) * ( ( \\ & W * (W')) * \text{sum}(W, 2))) .* 120) + (\text{sum}(((\text{sum}(W, \\ & 2) .* \text{sum}(W, 2)) .* \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \\ & .* ( \text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{repmat}(\text{sum}(W, 1), \\ & [n, 1]))), 2)), 1) .* -10) + ((\text{sum}(\text{sum}(W, 2), 1) .* \\ & \text{sum}(( (\text{sum}(W, 1) .* \text{sum}(W, 1)) .* \text{sum}(( W .* W), \\ & 1)), 2)) .* -60) + (\text{sum}((\text{sum}(\text{repmat}((\text{sum}(W, 2) \\ & .* \text{sum}(W, 2)), [1, m]), 1) .* \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, \\ & m]) .* ( \text{repmat}(\text{sum}(W, 2), [1, m]) .* \text{repmat}(\text{sum}(W, 1), \\ & [n, 1]))), 1)), 2) .* 15) + ( ( (\text{sum}(\text{sum}(W, 2), 1) \\ & * (\text{sum}(W, 2'))) * ( ( W * (W')) * \text{sum}(W, 2))) .* 60) \\ & + ( ( (\text{sum}(\text{sum}(W, 2), 1) * (\text{sum}(W, 1) * (W'))) * ( \\ & W * (\text{sum}(W, 1'))) ) .* 60) + ((\text{sum}(\text{sum}(W, 2), 1) .* ( \\ & \text{sum}((\text{sum}(W, 1) .* \text{sum}(W, 1)), 2) .* \text{sum}((\text{sum}(W, \\ & 1) .* \text{sum}(W, 1)), 2))) .* 15) + ((\text{sum}(\text{sum}(W, 2), 1) \\ & .* ((\text{sum}(\text{sum}(W, 2), 1) .* \text{sum}(\text{sum}(W, 2), 1)) .* ( \\ & \text{sum}(\text{sum}(W, 2), 1) .* \text{sum}(\text{sum}(W, 2), 1)))) .* 1) + \\ & ((\text{sum}((\text{sum}(W, 1) .* \text{sum}(W, 1)), 2) .* ( \text{sum}(\text{sum}(W, \\ & 2), 1) .* ( \text{sum}(\text{sum}(W, 2), 1) .* \text{sum}(\text{sum}(W, 2), \\ & 1)))) .* 10) + (\text{sum}((\text{sum}(( (\text{repmat}(\text{sum}(W, 2), [1, \end{aligned}$$

$$\begin{aligned}
& m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1]) \cdot W, 2) \cdot \text{repmat}(\text{sum}(\text{sum}((W \cdot W), 2), 1), [n, 1]), 1) \cdot 60 + \\
& ((\text{sum}((\text{sum}(W, 2) \cdot \text{sum}(W, 2)), 1) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)))) \\
& \cdot 10) + ((\text{sum}(\text{sum}((W \cdot W), 2), 1) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)))) \\
& \cdot 10) + (\text{sum}((\text{sum}(\text{repmat}(\text{sum}(W, 1) \cdot \text{sum}(W, 1)), [n, 1]), 2) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])), 2)), 1) \cdot 30) + (\text{sum}(\text{sum}(((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot W \cdot \text{repmat}(\text{sum}((W \cdot W), 1), [n, 1])), 2), 1) \cdot -120) + ((\text{sum}(\text{sum}(W, 2), 1) \cdot (\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2) \cdot \text{sum}(\text{sum}((W \cdot W), 2), 1))) \cdot 30) + (\text{sum}(\text{sum}(((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}((W \cdot W), 1), [n, 1])) \cdot \text{repmat}(\text{sum}((W \cdot W), 1), [n, 1])), 2), 1) \cdot -30) + ((\text{sum}(\text{sum}(W, 2), 1) \cdot (\text{sum}((\text{sum}(W, 2) \cdot \text{sum}(W, 2)), 1) \cdot \text{sum}(\text{sum}((W \cdot W), 2), 1))) \cdot 30) + (\text{sum}((\text{repmat}(\text{sum}(sum(W, 2), 1), [n, 1]) \cdot (\text{sum}((W \cdot W) \cdot (W \cdot W)), 2)), 1) \cdot 20) + ((\text{sum}(\text{sum}(W, 2), 1) \cdot (\text{sum}(\text{sum}((W \cdot W), 2), 1) \cdot \text{sum}(\text{sum}((W \cdot W), 2), 1) \cdot \text{sum}(\text{sum}((W \cdot W), 2), 1))) \cdot 15) + (\text{sum}((\text{sum}((W \cdot W), 2) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot W, 2)), 1) \cdot -120) + (\text{sum}(((W \cdot (W')) \cdot (W \cdot (W')) \cdot \text{repmat}(\text{sum}(\text{sum}(W, 2), 1), [n, 1]), 1) \cdot 30))) / 1024;
\end{aligned}$$

### 1.6. $g(x \rightarrow x^6, W)$

$$\begin{aligned}
& (((\text{sum}(\text{sum}(((W \cdot W) \cdot (\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot (\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])))), 2), 1) \cdot 360) + (\text{sum}(\text{sum}(((W \cdot \text{repmat}(\text{sum}(W, 2), [1, m]) \cdot (\text{repmat}(\text{sum}((W \cdot W), 1), [n, 1])) \cdot \text{repmat}(\text{sum}((W \cdot W), 1), [n, 1])), 2), 1) \cdot 360) + (\text{sum}(((\text{sum}(W, 1) \cdot \text{sum}(W, 1)) \cdot (\text{sum}(W, 1) \cdot \text{sum}(W, 1))) \cdot 2) \cdot 16) + ((\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2) \cdot \text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)) \cdot (\text{sum}(W, 1) \cdot \text{sum}(W, 1))), 2)) \cdot -30) + ((\text{sum}(W, 1) \cdot (W')) \cdot \text{sum}(W, 2))) \cdot 360) + ((\text{sum}(W, 1) \cdot (W')) \cdot ((W \cdot (W \cdot W)) \cdot (\text{sum}(W, 1)))) \cdot 480) + (\text{sum}(((\text{sum}(W, 2) \cdot \text{sum}(W, 2)) \cdot (\text{sum}(W, 2) \cdot \text{sum}(W, 2)) \cdot (\text{sum}(W, 2) \cdot \text{sum}(W, 2)))) \cdot 16) + (\text{sum}(\text{sum}(((W \cdot \text{repmat}(\text{sum}(W, 1), [n, 1]) \cdot \text{repmat}(\text{sum}((W \cdot W), 2), [1, m])) \cdot \text{repmat}(\text{sum}((W \cdot W), 2), [1, m])), 2), 1) \cdot 360) + ((\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2) \cdot \text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)) \cdot \text{sum}((W \cdot W), 1)), 2)) \cdot -180) + (\text{sum}((\text{repmat}(\text{sum}(\text{sum}(W, 2), 1), [n, 1]) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot (W \cdot (W \cdot W))), 2)), 1) \cdot 480) +
\end{aligned}$$

$$\begin{aligned}
& (\text{sum}((\text{repmat}(\text{sum}(\text{sum}(W, 2), 1), [n, 1]) \cdot (\text{sum}(W, 2) \cdot (\text{sum}(W, 2) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot W, 2))), 1) \cdot -240) + (\text{sum}((\text{sum}((W \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])), 2) \cdot (\text{sum}(W, 2) \cdot \text{sum}(\text{repmat}(\text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])), 1), [n, 1]), 2))), 1) \cdot 360) + ((\text{sum}(\text{sum}(W, 2), 1) \cdot (\text{sum}(W, 1) \cdot (W')) \cdot (W \cdot (W')) \cdot \text{sum}(W, 2))) \cdot 720) + (((\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)) \cdot ((\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)))) \cdot 1) + ((\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2) \cdot ((\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)))) \cdot 15) + (\text{sum}((\text{sum}((W \cdot \text{repmat}(\text{sum}(W, 1), [n, 1]), 2) \cdot (\text{sum}(W, 2) \cdot \text{repmat}((\text{sum}(\text{sum}(W, 2), 1) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1))), [n, 1])), 1) \cdot 120) + ((\text{sum}((\text{sum}(W, 2) \cdot \text{sum}(W, 2)), 1) \cdot ((\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)))) \cdot 15) + ((\text{sum}(\text{sum}((W \cdot W), 2), 1) \cdot ((\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)))) \cdot 15) + (\text{sum}(\text{sum}((\text{repmat}(\text{sum}(W, 2) \cdot \text{sum}(W, 2)), [1, m]) \cdot ((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot (\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])))), 1), 2) \cdot -30) + (\text{sum}((\text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])), 1) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])), 1)), 2) \cdot 45) + (\text{sum}((\text{sum}((W \cdot \text{repmat}(\text{sum}(W, 2), [1, m]), 1) \cdot \text{repmat}(\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2), [1, m])), 2) \cdot 180) + (\text{sum}((\text{sum}((W \cdot \text{repmat}(\text{sum}(W, 2), [1, m]), 1) \cdot (\text{sum}(W, 1) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])) \cdot W, 1))), 2) \cdot -360) + ((\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2) \cdot (\text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2)) \cdot 15) + (\text{sum}((\text{sum}((\text{repmat}(\text{sum}(W, 1), [n, 1]) \cdot (\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1])), 1) \cdot \text{sum}((\text{repmat}(\text{sum}(W, 1), [n, 1]) \cdot (\text{repmat}(\text{sum}(W, 2), [1, m]) \cdot \text{repmat}(\text{sum}(W, 1), [n, 1]))), 1)), 2) \cdot -30) + ((\text{sum}(\text{sum}(W, 2), 1) \cdot (\text{sum}(\text{sum}(W, 2), 1) \cdot \text{sum}(\text{sum}(W, 2), 1)), 2) \cdot \text{sum}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), 2))) \cdot 45) + (((\text{sum}(W, 1) \cdot \text{sum}(W, 1)) \cdot ((\text{repmat}(\text{sum}(W, 1), [m, 1]) \cdot (W')) \cdot (W \cdot (\text{sum}(W, 1'))))) \cdot 180) + (\text{sum}((\text{sum}((W \cdot \text{repmat}(\text{sum}(W, 1), [n, 1]), 2) \cdot ((\text{sum}(W, 2) \cdot \text{repmat}(\text{sum}(\text{sum}(W, 2), 1), [n, 1])) \cdot \text{sum}(\text{repmat}((\text{sum}(W, 1) \cdot \text{sum}(W, 1)), [n, 1]), 2))), 1) \cdot 360) + ((\text{sum}((W \cdot W), 1) \cdot ((W') \cdot \text{sum}(W, 2)) \cdot (W') \cdot \text{sum}(W, 2))) \cdot -360) + (\text{sum}((\text{sum}((W \cdot
\end{aligned}$$

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220	W), 1) .* ( ( sum(W, 1) .* sum(W, 1)) .* ( sum(W, 1)	1)), 2) .* sum(( sum(W, 2) .* sum(W, 2)), 1))) .* 90	275
221	.* sum(W, 1))), 2) .* 240) + ((sum(sum(( W .* W),	+ (sum((sum(( W .* repmat(sum(W, 1), [n, 1])), 2)	276
222	2), 1) .* sum(( ( sum(W, 1) .* sum(W, 1)) .* ( sum(W,	.* (sum(( W .* repmat(sum(W, 1), [n, 1])), 2) .* rep-	277
223	1) .* sum(W, 1))), 2)) .* -30) + ((sum(( sum(W, 1) .*	mat(( sum(sum(W, 2), 1) .* sum(sum(W, 2), 1)), [n,	278
224	sum(W, 1)), 2) .* ( sum(( sum(W, 1) .* sum(W, 1)), 2)	1])), 1) .* 180) + ( ( ( sum(W, 1) .* ( (W') * W)) * ( (	279
225	.* sum(sum(( W .* W), 2), 1))) .* 45) + ((sum(sum(W,	(W') * W) * (sum(W, 1)')) .* 360) + (sum((sum(( W	280
226	2), 1) .* ( sum(sum(W, 2), 1) .* sum(( ( sum(W, 1) .*	.* repmat(sum(W, 1), [n, 1])), 2) .* (sum(( W .* rep-	281
227	sum(W, 1)) .* sum(( W .* W), 1))), 2))) .* -180) + (((	mat(sum(W, 1), [n, 1])), 2) .* repmat(sum(( sum(W,	282
228	sum(sum(W, 2), 1) .* sum(sum(W, 2), 1)) .* ( sum((	2) .* sum(W, 2)), 1), [n, 1])), 1) .* 180) + ((sum((	283
229	sum(W, 1) .* sum(W, 1)), 2) .* sum(sum(( W .* W),	sum(W, 1) .* sum(W, 1)), 2) .* ( sum(( sum(W, 1) .*	284
230	2), 1))) .* 90) + (sum(sum((( repmat(sum(( W .* W),	sum(W, 1)), 2) .* sum(( sum(W, 2) .* sum(W, 2)), 1)))	285
231	2), [1, m]) .* repmat(sum(( W .* W), 1), [n, 1])) .* (	.* 45) + ( ( ( (sum(W, 2)') * W) * ( ( (W') * W) * (	286
232	W .* W)), 2), 1) .* 360) + (sum((sum(( W .* W), 1)	(W') * sum(W, 2)))) .* 360) + (sum((sum(( W .* rep-	287
233	.* ( sum(( W .* W), 1) .* repmat(sum(( sum(W, 1)	mat(sum(W, 2), [1, m])), 1) .* sum(( repmat(( sum(W,	288
234	.* sum(W, 1)), 2), [1, m]))), 2) .* -90) + ((sum(sum((	2) .* sum(W, 2)), [1, m]) .* ( W .* repmat(sum(W, 2),	289
235	W .* W), 2), 1) .* sum(( ( sum(W, 2) .* sum(W, 2))	[1, m])), 1)), 2) .* -240) + ((( (sum(W, 2)') * W) * (	290
236	.* ( sum(W, 2) .* sum(W, 2))), 1)) .* -30) + ((sum((	(W') * ( repmat(sum(W, 2), [1, n]) * ( sum(W, 2) .*	291
237	sum(W, 2) .* sum(W, 2)), 1) .* ( sum(( sum(W, 2) .*	sum(W, 2)))) .* 180) + ( ( ( (sum(W, 2)') * W) * (	292
238	sum(W, 2)), 1) .* sum(sum(( W .* W), 2), 1))) .* 45)	(( W .* ( W .* W))') * sum(W, 2))) .* 480) + ((sum((	293
239	+ (sum((sum(( W .* repmat(sum(W, 2), [1, m])), 1)	sum(W, 2) .* sum(W, 2)), 1) .* sum(( ( sum(W, 2)	294
240	.* (sum(( W .* repmat(sum(W, 2), [1, m])), 1) .* rep-	.* sum(W, 2)) .* ( sum(W, 2) .* sum(W, 2))), 1))	295
241	mat(sum(sum(( W .* W), 2), 1), [1, m])), 2) .* 180)	.* -30) + ((sum(( sum(W, 2) .* sum(W, 2)), 1) .* (	296
242	+ (sum((sum(( W .* repmat(sum(W, 1), [n, 1])), 2)	sum(( sum(W, 2) .* sum(W, 2)), 1) .* sum(( sum(W,	297
243	.* (sum(( W .* repmat(sum(W, 1), [n, 1])), 2) .* rep-	2) .* sum(W, 2)), 1))) .* 15) + ((sum(( sum(W, 2) .*	298
244	mat(sum(sum(( W .* W), 2), 1), [n, 1])), 1) .* 180)	sum(W, 2)), 1) .* sum(( ( sum(W, 2) .* sum(W, 2)) .*	299
245	+ (sum((( sum(W, 2) .* repmat(sum(sum(W, 2), 1),	sum(( W .* W), 2)), 1)) .* -180) + (sum((( sum(( W .*	300
246	[n, 1])) .* (sum(( W .* repmat(sum(W, 1), [n, 1])), 2)	W), 2) .* sum(( W .* W), 2)) .* repmat(sum(( sum(W,	301
247	.* repmat(sum(sum(( W .* W), 2), 1), [n, 1])), 1) .*	2) .* sum(W, 2)), 1), [n, 1])), 1) .* -90) + ((sum((	302
248	360) + (sum((sum(( W .* repmat(sum(W, 1), [n, 1])),	sum(W, 1) .* sum(W, 1)), 2) .* ( sum(( sum(W, 2) .*	303
249	2) .* sum(( repmat(( sum(W, 1) .* sum(W, 1)), [n, 1]	sum(W, 2)), 1) .* sum(sum(( W .* W), 2), 1))) .* 90)	304
250	.* ( W .* repmat(sum(W, 1), [n, 1])), 2)), 1) .* -240)	+ ( sum(( ( sum(W, 1) .* sum(W, 1)) .* sum(( ( W .*	305
251	+ (sum(sum((W .* repmat((repmat(sum(sum(W, 2),	W) .* ( W .* W))), 1)), 2) .* -480) + (( sum(( sum(W,	306
252	1), [1, m]) .* (sum(W, 1) .* sum(( ( repmat(sum(W,	1) .* sum(W, 1)), 2) .* sum(sum(( ( W .* W) .* ( W	307
253	2), [1, m]) .* repmat(sum(W, 1), [n, 1])) .* W,	.* W)), 2), 1)) .* 60) + ( sum(( sum(( W .* W), 1)	308
254	1))), [n, 1])), 2), 1) .* -240) + ((sum(( sum(W, 2)	.* sum(( ( W .* W) .* ( W .* W))), 1)), 2) .* -480)	309
255	.* sum(W, 2)), 1) .* sum(( ( sum(W, 1) .* sum(W,	+ (sum((sum(repmat(( sum(W, 2) .* sum(W, 2)), [1,	310
256	1)) .* ( sum(W, 1) .* sum(W, 1))), 2)) .* -30) + (((	m]), 1) .* sum(( ( W .* W) .* ( W .* W))), 1)), 2) .*	311
257	sum(sum(W, 2), 1) .* sum(sum(W, 2), 1)) .* sum((	60) + ( ( ( sum(W, 1) .* sum(( W .* W), 1)) * ( (	312
258	( sum(W, 2) .* sum(W, 2)) .* sum(( W .* W), 2)),	(W') * W) * (sum(W, 1)')) .* -720) + ((sum(sum(W,	313
259	1)) .* -180) + ((( sum(sum(W, 2), 1) .* sum(sum(W,	2), 1) .* sum(sum((( ( repmat(sum(W, 2), [1, m])	314
260	2), 1)) .* sum(sum(( ( W .* W) .* ( W .* W)), 2),	repmat(sum(W, 1), [n, 1])) .* W) .* repmat(sum(( W	315
261	1)) .* 60) + (sum((sum((repmat(sum(W, 2), [1, m])	.* W), 1), [n, 1])), 2), 1)) .* -720) + ((sum(( sum(W,	316
262	.* ( repmat(sum(W, 2), [1, m]) .* repmat(sum(W,	2) .* sum(W, 2)), 1) .* sum(( ( sum(W, 1) .* sum(W,	317
263	1), [n, 1])), 2) .* sum((repmat(sum(W, 2), [1, m])	1)) .* sum(( W .* W), 1)), 2)) .* -180) + ((sum(sum((	318
264	.* ( repmat(sum(W, 2), [1, m]) .* repmat(sum(W,	W .* W), 2), 1) .* sum(( ( sum(W, 1) .* sum(W, 1))	319
265	1), [n, 1])), 2)), 1) .* -30) + ((sum(sum(W, 2), 1)	sum(( W .* W), 1)), 2)) .* -180) + (sum(( ( sum(W,	320
266	.* sum((sum(repmat(( sum(W, 2) .* sum(W, 2)), [1,	1) .* sum(W, 1)) .* ( sum(( W .* W), 1) .* sum(( W	321
267	m]), 1) .* sum((repmat(sum(W, 2), [1, m]) .* ( rep-	.* W), 1))), 2) .* 720) + ( sum(( sum(( W .* W), 1)	322
268	mat(sum(W, 2), [1, m]) .* repmat(sum(W, 1), [n, 1])),	.* ( sum(( W .* W), 1) .* sum(( W .* W), 1))), 2)	323
269	1)), 2)) .* 45) + (sum((sum(( W .* repmat(sum(W, 2),	.* 240) + (sum(sum((repmat(sum(( W .* W), 1), [n,	324
270	[1, m])), 1) .* (sum(( W .* repmat(sum(W, 2), [1, m])),	1)) .* (repmat(( sum(W, 2) .* repmat(sum(sum(W, 2),	325
271	1) .* repmat(( sum(sum(W, 2), 1) .* sum(sum(W, 2),	1), [n, 1])), [1, m]) .* repmat(sum(( W .* W), 1), [n,	326
272	1)), [1, m])), 2) .* 180) + ((( sum(sum(W, 2), 1) *	1])), 2), 1) .* -90) + (sum((sum(repmat(( sum(W, 2)	327
273	sum(sum(W, 2), 1)) .* ( sum(( sum(W, 1) .* sum(W,	.* sum(W, 2)), [1, m]), 1) .* ( sum(( W .* W), 1) *	328
274			329

330	sum(( W .* W), 1))), 2) .* -90) + (sum((sum(( W .*	repmat(sum(( sum(W, 2) .* sum(W, 2)), 1), [n, 1])),	385
331	W), 2) .* ( sum(( W .* W), 2) .* repmat(( sum(sum(W,	1) .* 90) + ( sum(( ( sum(W, 1) .* sum(W, 1)) * (	386
332	2), 1) .* sum(sum(W, 2), 1)), [n, 1])), 1) .* -90) +	( (W') * W) .* ( (W') * W))), 2) .* -360) + ( sum((	387
333	((sum(( sum(W, 1) .* sum(W, 1)), 2) .* ( sum(sum((	sum(( W .* W), 1) * ( (W') * W) .* ( (W') * W))),	388
334	W .* W), 2), 1) .* sum(sum(( W .* W), 2), 1))) .* 45)	2) .* -360) + (( repmat(sum(sum(( W .* W), 2), 1),	389
335	+ ((( sum(sum(W, 2), 1) .* sum(sum(W, 2), 1)) .* (	[1, m]) * sum(( ( (W') * W) .* ( (W') * W))), 2)) .*	390
336	sum(sum(( W .* W), 2), 1) .* sum(sum(( W .* W), 2),	90) + ( sum(sum(( W .* ( ( W * (W')) * ( W .* ( W	391
337	1))) .* 45) + ((( sum(sum(W, 2), 1) .* sum(sum(W,	.* W))), 2), 1) .* 480) + ( sum(sum(( ( ( W * (W'))	392
338	2), 1)) .* ( sum(( sum(W, 2) .* sum(W, 2)), 1) .*	* W) .* ( ( W * (W')) * W))), 2), 1) .* 120))) / 4096;	393
339	sum(sum(( W .* W), 2), 1))) .* 90) + (sum(( sum(( W		394
340	.* W), 2) .* ( ( sum(W, 2) .* sum(W, 2)) .* ( sum(W,		395
341	2) .* sum(W, 2))), 1) .* 240) + ( sum(( ( sum(W, 2)		396
342	.* sum(W, 2)) .* sum(( ( W .* W) .* ( W .* W))), 2)),		397
343	1) .* -480) + (sum(( ( sum(W, 2) .* sum(W, 2)) .* (		398
344	sum(( W .* W), 2) .* sum(( W .* W), 2))), 1) .* 720)		399
345	+ ((sum(sum(W, 2), 1) .* sum((sum(( W .* W), 2) .*		400
346	sum(( repmat(sum(W, 2), [1, m]) .* repmat(sum(W,		401
347	1), [n, 1])) .* W), 2)), 1)) .* -720) + ( ( ( sum(W, 2)'		402
348	* ( W * (W'))) * ( sum(W, 2) .* sum(( W .* W), 2)))		403
349	.* -720) + ( sum(( sum(( W .* W), 2) .* sum(( ( W		404
350	.* W) .* ( W .* W))), 2)), 1) .* -480) + ( sum(( sum((		405
351	W .* W), 2) .* ( sum(( W .* W), 2) .* sum(( W .*		406
352	W), 2))), 1) .* 240) + ((sum(( sum(W, 1) .* sum(W,		407
353	1)), 2) .* sum(( ( sum(W, 2) .* sum(W, 2)) .* sum((		408
354	W .* W), 2)), 1)) .* -180) + ((sum(sum(( W .* W),		409
355	2), 1) .* sum(( ( sum(W, 2) .* sum(W, 2)) .* sum((		410
356	W .* W), 2)), 1)) .* -180) + (sum((sum(( W .* rep-		411
357	mat(sum(W, 1), [n, 1])), 2) .* (sum(W, 2) .* sum(( (		412
358	repmat(sum(W, 2), [1, m]) .* repmat(sum(W, 1), [n,		413
359	1])) .* W), 2))), 1) .* -360) + ( ( ( ( sum(W, 1) *		414
360	(W')) .* ( sum(W, 1) * (W'))) * sum(( W .* W), 2))		415
361	.* -360) + (sum((sum(repmat(( sum(W, 1) .* sum(W,		416
362	1)), [n, 1]), 2) .* ( sum(( W .* W), 2) .* sum(( W .*		417
363	W), 2))), 1) .* -90) + ((sum(( sum(W, 2) .* sum(W,		418
364	2)), 1) .* ( sum(sum(( W .* W), 2), 1) .* sum(sum((		419
365	W .* W), 2), 1))) .* 45) + ( sum(sum(( ( W .* W)		420
366	.* ( ( W .* W) .* ( W .* W))), 2), 1) .* 256) + ( (		421
367	sum(sum(( W .* W), 2), 1) .* sum(sum(( ( W .* W)		422
368	.* ( W .* W))), 2), 1)) .* 60) + ((sum(sum(( W .* W),		423
369	2), 1) .* ( sum(sum(( W .* W), 2), 1) .* sum(sum((		424
370	W .* W), 2), 1))) .* 15) + (sum(sum((repmat(sum((		425
371	W .* W), 1), [n, 1]) .* repmat(sum(( W .* W), 2),		426
372	[1, m]) .* repmat(sum(( W .* W), 1), [n, 1])), 1), 2)		427
373	.* -90) + ((repmat(sum(sum(W, 2), 1), [1, m]) * ( (		428
374	( (W') * W) .* ( (W') * W)) * repmat(sum(sum(W,		429
375	2), 1), [m, 1])) .* 90) + (sum(sum((repmat(sum(( W		430
376	.* W), 2), [1, m]) .* repmat(sum(( W .* W), 2), [1,		431
377	m]) .* repmat(sum(( W .* W), 1), [n, 1])), 2), 1) *		432
378	-90) + ( sum(( ( ( W * (W')) .* ( W * (W'))) * (		433
379	sum(W, 2) .* sum(W, 2))), 1) .* -360) + ( sum(( ( (		434
380	W * (W')) .* ( W * (W'))) * sum(( W .* W), 2)), 1)		435
381	.* -360) + (sum(( ( ( W * (W')) .* ( W * (W'))) * (		436
382	sum(repmat(( sum(W, 1) .* sum(W, 1)), [n, 1]), 2)),		437
383	1) .* 90) + (sum(( ( ( W * (W')) .* ( W * (W'))) * (		438
384			439