DME Designer
Component Resource Utilization

この表は、DME Designer上で各コンポーネントを配置した際に表示されるリソースメーターの値を転記したものです。
リソースメーターはDSPの使用量のみを表示しているため、コンフィグレーションによっては、リソースメーターが100%未満であっても、メモリーや(内部的な)入出力数の制限によって、DMEに転送できない場合があります。Delayなどのメモリー消費量の多いコンポーネントや、Routerなど入出力数の多いコンポーネントを多数使用する場合は、設計時にDME DesignerのAnalyze機能(DME本体を使用せずに転送の可否を確認できる機能)を利用して、該当のコンフィグレーションが転送可能かどうかを随時確認することをお勧めします。

Sampling Frequency (F_s): 48kHz				DME24N		DME64N		DME8i-C & DME8i-ES		DME8o-C & DME8o-ES		DME4io-C & DME4io-ES	
Main Component Category	**Component sub-category 1**	**Component sub-category 2**	**Component**	**DSP**	**SPX**	**DSP**	**SPX**	**DSP**		**DSP**		**DSP**	
Initial DSP amount				**2%**	**0%**	**0%**	**0%**	**4%**	**0%**	**6%**	**0%**	**5%**	**0%**
Ambient Noise Compensator			Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
Audio Detector			Audio Detector	1%		1%		2%		2%		2%	
Auto Gain Control			Mono	2%		1%		2%		2%		2%	
			Stereo	3%		2%		3%		3%		3%	
Crossover			2 Way	3%		2%		3%		3%		3%	
			3 Way	4%		2%		5%		5%		5%	
			4 Way	6%		3%		6%		6%		6%	
			5 Way	7%		4%		7%		7%		7%	
			6 Way	8%		4%		8%		8%		8%	
Crossover Processor			2 Way	5%		3%		5%		5%		5%	
			3 Way	7%		4%		7%		7%		7%	
			4 Way	9%		5%		9%		9%		9%	
			5 Way	11%		6%		11%		11%		11%	
			6 Way	12%		6%		13%		13%		13%	
Crossover Processor II			2 Way	6%		3%		6%		6%		6%	
			3 Way	8%		4%		9%		9%		9%	
			4 Way	11%		6%		11%		11%		11%	
			5 Way	13%		7%		13%		13%		13%	
			6 Way	16%		8%		16%		16%		16%	
Delay	Long		1 Output	1%		1%		1%		1%		1%	
			2 Output	1%		1%		1%		1%		1%	
			3 Output	2%		1%		2%		2%		2%	
			4 Output	2%		1%		2%		2%		2%	
			5 Output	2%		1%		2%		2%		2%	
			6 Output	3%		2%		3%		3%		3%	
			7 Output	3%		2%		3%		3%		3%	
			8 Output	3%		2%		3%		3%		3%	
	Short		1 Output	1%		1%		1%		1%		1%	
			2 Output	1%		1%		1%		1%		1%	
			3 Output	2%		1%		2%		2%		2%	
			4 Output	2%		1%		2%		2%		2%	
			5 Output	2%		1%		2%		2%		2%	
			6 Output	3%		2%		3%		3%		3%	
			7 Output	3%		2%		3%		3%		3%	
			8 Output	3%		2%		3%		3%		3%	
Dynamics	Compander	Compander H	Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
		Compander S	Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	Compressor		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	De-Esser		Mono	2%		1%		2%		2%		2%	
			Stereo	3%		2%		3%		3%		3%	
	Ducking		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	Expander		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	Gate		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	Limiter		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	Program Ducker		Mono	1%		1%		1%		1%		1%	
			Stereo	1%		1%		1%		1%		1%	
EQ	GEQ	Mono	7 Band	3%		2%		3%		3%		3%	
			15 Band	4%		2%		4%		4%		4%	
			31 Band	6%		3%		7%		7%		7%	
		Stereo	7 Band	5%		3%		5%		5%		5%	
			15 Band	7%		4%		7%		7%		7%	
			31 Band	12%		6%		12%		12%		12%	
	PEQ	Mono	2 Band	1%		1%		1%		1%		1%	
			3 Band	1%		1%		1%		1%		1%	
			4 Band	1%		1%		1%		1%		1%	
			6 Band	2%		1%		2%		2%		2%	
			8 Band	2%		1%		2%		2%		2%	
		Stereo	2 Band	1%		1%		1%		1%		1%	
			3 Band	2%		1%		2%		2%		2%	
			4 Band	2%		1%		2%		2%		2%	
			6 Band	3%		2%		3%		3%		3%	
			8 Band	3%		2%		3%		3%		3%	
Fader			1 Channel	1%		1%		1%		1%		1%	
			2 Channel	1%		1%		1%		1%		1%	
			4 Channel	1%		1%		1%		1%		1%	
			8 Channel	2%		1%		2%		2%		2%	
			12 Channel	3%		2%		3%		3%		3%	
			16 Channel	4%		2%		4%		4%		4%	
Feedback Suppressor			Feedback Suppressor	0%	25%	0%	25%	Not Available		Not Available		Not Available	
Filter	BPF		Mono	1%		1%		1%		1%		1%	
			Stereo	1%		1%		1%		1%		1%	
	HPF		Mono	1%		1%		1%		1%		1%	
			Stereo	1%		1%		1%		1%		1%	
	LPF		Mono	1%		1%		1%		1%		1%	
			Stereo	1%		1%		1%		1%		1%	
	Notch		Mono	1%		1%		1%		1%		1%	
			Stereo	1%		1%		1%		1%		1%	
	Programmable BPF		Mono	2%		1%		2%		2%		2%	
			Stereo	3%		2%		3%		3%		3%	
	Programmable HPF		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	
	Programmable LPF		Mono	1%		1%		1%		1%		1%	
			Stereo	2%		1%		2%		2%		2%	

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Sampling Frequency (F_S): 48kHz				DME24N		DME64N		DME8i-C & DME8i-ES		DME8o-C & DME8o-ES		DME4io-C & DME4io-ES	
Main Component Category	**Component sub-category 1**	**Component sub-category 2**	**Component**	**DSP**	**SPX**	**DSP**	**SPX**	**DSP**		**DSP**		**DSP**	
Meter			1 Channel	1%		1%		1%		1%		1%	
			2 Channel	1%		1%		1%		1%		1%	
			4 Channel	1%		1%		1%		1%		1%	
			8 Channel	2%		1%		2%		2%		2%	
			12 Channel	3%		2%		3%		3%		3%	
			16 Channel	4%		2%		4%		4%		4%	
Miscellaneous		Oscillator	Mono	2%		1%		2%		2%		2%	
		Wav File Player	N.B. A maximum of one Wav file player can be inserted per DME.	1%		1%		1%		1%		1%	
Mixer	Auto Mixer		2 Channel	2%		1%		2%		2%		2%	
			4 Channel	3%		2%		3%		3%		3%	
			8 Channel	5%		3%		5%		5%		5%	
			12 Channel	7%		4%		7%		7%		7%	
			16 Channel	9%		5%		9%		9%		9%	
	Auto Mixer II		8 Channel	5%		3%		5%		5%		5%	
			16 Channel	8%		4%		8%		8%		8%	
	Delay Matrix	2 Input	2 Output	3%		2%		3%		3%		3%	
			4 Output	4%		2%		4%		4%		4%	
			8 Output	7%		4%		7%		7%		7%	
			12 Output	10%		5%		10%		10%		10%	
			16 Output	12%		6%		13%		13%		13%	
		4 Input	2 Output	4%		2%		4%		4%		4%	
			4 Output	7%		4%		7%		7%		7%	
			8 Output	13%		7%		13%		13%		13%	
			12 Output	18%		9%		19%		19%		19%	
			16 Output	24%		12%		24%		24%		24%	
		8 Input	2 Output	8%		4%		8%		8%		8%	
			4 Output	14%		7%		14%		14%		14%	
			8 Output	25%		13%		26%		26%		26%	
			12 Output	31%		16%		32%		32%		32%	
			16 Output	40%		20%		42%		42%		42%	
	Matrix Mixer	2 Input	1 Output	2%		1%		2%		2%		2%	
			2 Output	2%		1%		2%		2%		2%	
		4 Input	1 Output	2%		1%		2%		2%		2%	
			2 Output	2%		1%		2%		2%		2%	
			4 Output	2%		1%		2%		2%		2%	
			8 Output	3%		2%		3%		3%		3%	
			16 Output	4%		2%		4%		4%		4%	
		8 Input	1 Output	2%		1%		2%		2%		2%	
			2 Output	2%		1%		2%		2%		2%	
			4 Output	3%		2%		3%		3%		3%	
			8 Output	3%		2%		4%		4%		4%	
			16 Output	5%		3%		6%		6%		6%	
			32 Output	10%		5%		10%		10%		10%	
		12 Input	1 Output	2%		1%		3%		3%		3%	
			2 Output	3%		2%		3%		3%		3%	
			4 Output	3%		2%		3%		3%		3%	
			8 Output	4%		2%		5%		5%		5%	
			12 Output	6%		3%		6%		6%		6%	
		16 Input	1 Output	3%		2%		3%		3%		3%	
			2 Output	3%		2%		3%		3%		3%	
			4 Output	4%		2%		4%		4%		4%	
			8 Output	5%		3%		6%		6%		6%	
			12 Output	7%		4%		8%		8%		8%	
			16 Output	9%		5%		9%		9%		9%	
			32 Output	16%		8%		17%		17%		17%	
			64 Output	Not Available		16%		Not Available		Not Available		Not Available	
		24 Input	24 Output	17%		9%		18%		18%		18%	
		32 Input	16 Output	16%		8%		17%		17%		17%	
			32 Output	29%		15%		30%		30%		30%	
			64 Output	Not Available		30%		Not Available		Not Available		Not Available	
		64 Input	32 Output	Not Available		30%		Not Available		Not Available		Not Available	
			64 Output	Not Available		56% N.B. A 64-input Matrix Mixer cannot be included simultaneously with any other components.		Not Available		Not Available		Not Available	
	Simple Mixer		16 Channel	11%		6%		12%		12%		12%	
			24 Channel	16%		8%		17%		17%		17%	
Pan	LCR		1 Channel	1%		1%		1%		1%		1%	
			2 Channel	1%		1%		1%		1%		1%	
			4 Channel	1%		1%		1%		1%		1%	
			8 Channel	2%		1%		2%		2%		2%	
			12 Channel	3%		2%		3%		3%		3%	
			16 Channel	4%		2%		4%		4%		4%	
	LR		1 Channel	1%		1%		1%		1%		1%	
			2 Channel	1%		1%		1%		1%		1%	
			4 Channel	1%		1%		1%		1%		1%	
			8 Channel	2%		1%		2%		2%		2%	
			12 Channel	2%		1%		2%		2%		2%	
			16 Channel	3%		2%		3%		3%		3%	
	Surround		3-1	1%		1%		1%		1%		1%	
			5.1	1%		1%		1%		1%		1%	
			6.1	1%		1%		1%		1%		1%	
Room Combiner		Mono	4 Room	2%		1%		2%		2%		2%	
			8 Room	3%		2%		4%		4%		4%	
			12 Room	6%		3%		6%		6%		6%	
			16 Room	9%		5%		9%		9%		9%	
		Stereo	4 Room	3%		2%		4%		4%		4%	
			8 Room	9%		5%		9%		9%		9%	
			12 Room	17%		9%		18%		18%		18%	
			16 Room	29%		15%		30%		30%		30%	

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Sampling Frequency (F_S): 48kHz				DME24N		DME64N		DME8i-C & DME8i-ES		DME8o-C & DME8o-ES		DME4io-C & DME4io-ES	
Main Component Category	**Component sub-category 1**	**Component sub-category 2**	**Component**	**DSP**	**SPX**	**DSP**	**SPX**	**DSP**		**DSP**		**DSP**	
Router		1 Input	2 Output	1%		1%		1%		1%		1%	
			4 Output	1%		1%		1%		1%		1%	
			8 Output	1%		1%		1%		1%		1%	
			12 Output	2%		1%		2%		2%		2%	
			16 Output	2%		1%		2%		2%		2%	
		2 Input	2 Output	1%		1%		1%		1%		1%	
			4 Output	1%		1%		1%		1%		1%	
			8 Output	1%		1%		1%		1%		1%	
			12 Output	2%		1%		2%		2%		2%	
			16 Output	2%		1%		2%		2%		2%	
		4 Input	2 Output	1%		1%		1%		1%		1%	
			4 Output	1%		1%		1%		1%		1%	
			8 Output	1%		1%		2%		2%		2%	
			12 Output	2%		1%		2%		2%		2%	
			16 Output	2%		1%		2%		2%		2%	
		8 Input	2 Output	1%		1%		1%		1%		1%	
			4 Output	1%		1%		2%		2%		2%	
			8 Output	2%		1%		2%		2%		2%	
			12 Output	2%		1%		2%		2%		2%	
			16 Output	2%		1%		2%		2%		2%	
		12 Input	2 Output	2%		1%		2%		2%		2%	
			4 Output	2%		1%		2%		2%		2%	
			8 Output	2%		1%		2%		2%		2%	
			12 Output	2%		1%		2%		2%		2%	
			16 Output	2%		1%		2%		2%		2%	
		16 Input	2 Output	2%		1%		2%		2%		2%	
			4 Output	2%		1%		2%		2%		2%	
			8 Output	2%		1%		2%		2%		2%	
			12 Output	2%		1%		2%		2%		2%	
			16 Output	2%		1%		3%		3%		3%	
		32 Input	32 Output	4%		2%		4%		4%		4%	
Source Selector		3 Position	1 Channel	1%		1%		1%		1%		1%	
		4 Position	1 Channel	1%		1%		1%		1%		1%	
			2 Channel	1%		1%		1%		1%		1%	
			6 Channel	2%		1%		2%		2%		2%	
		8 Position	1 Channel	1%		1%		1%		1%		1%	
			2 Channel	1%		1%		2%		2%		2%	
			6 Channel	3%		2%		3%		3%		3%	
		16 Position	1 Channel	1%		1%		1%		1%		1%	
Speaker Processor			1 Way	4%		2%		4%		4%		4%	
			2 Way	6%		3%		6%		6%		6%	
			3 Way	8%		4%		9%		9%		9%	
			4 Way	11%		6%		11%		11%		11%	
			5 Way	13%		7%		13%		13%		13%	
			6 Way	16%		8%		16%		16%		16%	
SPX			SPX	0%	25%	0%	25%	Not Available		Not Available		Not Available	
User Module				User defined		User defined		User defined		User defined		User defined	

Notes:
1) 使用したDME DesignerのバージョンはV3.0.0Eです。
2) リソースはサンプリングレート=48kHzで計測しています。ハイサンプリング時の値は上記のほぼ倍程度となります。となります。

YAMAHA CA事業開発推進部　テクニカルマーケティンググループ