

# Nastran Bulk Data (BDF) IO support for C++

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## 1 BDF Cards supported

	Name	Description	Read	Write
General	MAT1	Material definition	✓	
	GRID	Grid nodes	✓	
Elements	CTRIA3	3 node shaped shell elements	✓	
	CQUAD4	4 node shaped shell elements	✓	
	CBEAM	Complex beams	✓	
	CBAR	Simple beams	✓	✓
	CROD	Trusses	✓	
Element	properties			
	PSHELL	Properties for CTRIA3, and CQUAD4	✓	
	PBEAM	Integral properties for CBEAM	✓	
	PBEAML	Properties for CBEAM describing cross section	✓	
	PBAR	Integral properties for CBAR	✓	
	PBARL	Properties for CBAR describing cross section	✓	
	PROD	Properties for CROD	✓	
Load	LOAD	Load case combination	✓	
	FORCE	Forces on Nodes	✓	✓
	MOMENT	Moments on Nodes	✓	✓
Misc	ENDDATA	Marker for end of input file	✓	